Search Costs Field Experiment

2025-06-11

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1 Summary Statistics

1.1 Overall Summary Statistics

1.1.1 Seminar Speaker Demographics

Table 1: Overall Seminar Statistics

Statistic	Value
Number of seminars	1655
Number of unique departments	528
Total speakers across all seminars	23193
Mean speakers per seminar	14.01
SD speakers per seminar	9.90
Min speakers in a seminar	1
Max speakers in a seminar	76

Table 2: Seminar Speaker Demographics (Across All Seminars)

Demographic Group	Mean $\%$	SD $\%$	Mean Count	SD Count	Pct. Any
URM	7.42	11.10	1.00	1.28	54.1
Black	2.23	5.95	0.32	0.68	23.3
Hispanic	5.17	9.51	0.68	1.01	42.7
Female	16.97	16.17	2.40	2.47	76.1

Note: N=1655 seminars. Percentages calculated among speakers with demographic data available. 'Pct. Any' indicates the percentage of seminars that have at least one speaker from that demographic group.

1.1.2 Department Faculty Demographics

Table 3: Department Faculty Demographics

Statistic	Mean	SD
Total faculty per department	34.0	18.1
% URM faculty	4.09	4.40
% Women faculty	20.40	7.58

Note: N = 528 unique departments. Department faculty demographics based on 2024 coding.

1.2 Summary Statistics by Discipline

1.2.1 Seminar Speaker Demographics by Discipline

Table 4: Seminar Statistics by Discipline

Discipline	N Seminars	N Depts	Mean Speakers	SD Speakers
Chemistry	270	122	14.5	10.9
Computer Science	142	82	13.2	10.3
Mathematics	812	134	13.3	9.1
Mechanical Engineering	81	65	13.0	10.2
Physics	350	125	15.8	10.4

Table 5: Seminar Speaker Demographics by Discipline: URM

Discipline	N Seminars	Mean $\%$	SD $\%$	Mean Count	Pct. Has Any
Chemistry	270	8.92	10.51	1.27	64.4
Computer Science	142	4.48	8.21	0.54	36.6
Mathematics	812	7.02	10.67	0.93	50.0
Mechanical Engineering	81	8.20	9.17	1.12	61.7
Physics	350	8.21	13.45	1.12	60.9

Note: Statistics are for seminar speakers. 'Pct. Has Any' indicates percentage of seminars with at least one URM speaker.

Table 6: Seminar Speaker Demographics by Discipline: Other Groups

	Black		His	panic	Female	
Discipline	Mean $\%$	Pct. Any	Mean $\%$	Pct. Any	Mean $\%$	Pct. Any
Chemistry	4.23	39.6	4.58	45.6	23.70	86.7
Computer Science	1.55	17.6	2.93	24.6	19.23	78.2
Mathematics	1.79	19.5	5.22	40.6	14.01	70.8
Mechanical Engineering	2.95	28.4	5.25	46.9	19.83	76.5
Physics	1.82	20.9	6.39	51.7	17.05	79.4

Note: Statistics are for seminar speakers. 'Pct. Any' indicates percentage of seminars with at least one speaker from that group.

1.2.2 Department Faculty Demographics by Discipline

Table 7: Department Faculty Demographics by Discipline

		Faculty Size		% URM Faculty		% Women Faculty	
Discipline	N Depts	Mean	SD	Mean	SD	Mean	$^{\mathrm{SD}}$
Chemistry	122	28.6	11.9	4.76	4.47	24.40	7.18
Computer Science	82	43.5	25.0	2.79	3.27	20.12	7.28
Mathematics	134	33.9	16.2	3.63	3.54	19.82	7.67
Mechanical Engineering	65	36.4	19.1	5.57	5.48	19.70	7.61
Physics	125	32.0	16.4	4.03	4.90	17.64	6.52

Note: Department faculty demographics based on 2024 coding.

1.3 Summary Statistics by Semester

Table 8: Summary Statistics by Semester

	URM			Bl	ack	Hispanic	
Semester (N)	Mean $\%$	Mean Count	Pct. Any	Mean $\%$	Pct. Any	Mean $\%$	Pct. Any
Fall (1448)	7.08	0.53	36.3	1.73	11.7	5.33	28.9
Spring (1389)	7.51	0.64	41.7	2.68	18.4	4.81	29.6
	Female			Total S	Speakers		
Semester	Mean $\%$	Mean Count	Pct. Any	Mean	SD		
Fall	16.16	1.27	62.0	7.75	5.50		
Spring	17.71	1.53	65.0	8.62	6.86		

Main Effects Analysis $\mathbf{2}$

Main Question 1: URM Speaker Representation

Table 9: Main Question 1: Effect on URM Speaker Representation

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.773	0.721	0.101	0.076	0.021	0.013
	(0.523)	(0.515)	(0.066)	(0.064)	(0.025)	(0.023)
Constant	7.902***	3.183	1.102***	0.163	0.573***	0.197^{+}
	(1.636)	(2.097)	(0.168)	(0.272)	(0.072)	(0.115)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.011	0.017	0.030	0.039	0.028	0.042

Main Questions 2a-2c: Effects on Speaker Counts 2.2

Table 10: Main Questions 2a-2c: Effects on Speaker Counts

	% Count (1)	% Count (2)	Count Count (3)	Count Count (4)	Any Count (5)	Any Count (6)
Treatment	-0.508 (0.546)	-0.468 (0.545)	0.101 (0.066)	0.076 (0.064)	-0.609 (0.519)	-0.544 (0.520)
Constant	17.111^{***} (1.257)	13.874^{***} (2.406)	1.102*** (0.168)	0.163 (0.272)	16.009*** (1.175)	13.712^{***} (2.252)
Controls N Adjusted R^2	Simple 1,655 0.032	Extended 1,655 0.055	Simple 1,655 0.030	Extended 1,655 0.039	Simple 1,655 0.031	Extended 1,655 0.056

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

2.3 Seemingly Unrelated Regression (SUR) Analysis

Table 11: SUR Analysis: Testing Substitution Between URM and Non-URM Speakers

Outcome	Coefficient	SE
URM Speakers Non-URM Speakers	0.1006 -0.6088	(0.0630) (0.4599)
Sum of Effects	-0.5081	_

Wald Test: H0: Treatment effect on URM + Treatment effect on Non-URM = 0

Note: SUR estimation with simple controls allows for correlation between equation errors. The Wald test examines whether the treatment effect represents a pure substitution (increasing URM speakers while decreasing non-URM speakers by the same amount).

Demographic Subgroup Analysis 3

Black Speakers 3.1

Table 12: Effect on Black Speakers

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.676*	0.660*	0.084*	0.083*	0.056*	0.055*
	(0.308)	(0.294)	(0.039)	(0.038)	(0.023)	(0.023)
Constant	2.714***	0.929	0.428***	0.103	0.287***	0.051
	(0.791)	(1.301)	(0.103)	(0.167)	(0.061)	(0.104)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.026	0.031	0.048	0.056	0.036	0.044

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

3.2 **Hispanic Speakers**

Table 13: Effect on Hispanic Speakers

			-	•		
	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanio (6)
Treatment	0.111 (0.455)	0.067 (0.469)	0.017 (0.049)	-0.009 (0.048)	-0.017 (0.025)	-0.029 (0.025)
Constant	4.976*** (1.496)	2.037 (1.865)	0.648*** (0.138)	0.023 (0.209)	0.429^{***} (0.074)	0.141 (0.106)
Controls N Adjusted R^2	Simple 1,655 0.006	Extended 1,655 0.006	Simple 1,655 0.015	Extended 1,655 0.022	Simple 1,655 0.020	Extended 1,655 0.026

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

Female Speakers 3.3

Table 14: Effect on Female Speakers

	% Female (1)	% Female (2)	Count Female (3)	Count Female (4)	Any Female (5)	Any Female (6)
Treatment	0.341 (0.836)	-0.126 (0.830)	-0.061 (0.128)	-0.122 (0.128)	0.005 (0.022)	0.001 (0.022)
Constant	22.012^{***} (2.105)	13.852*** (4.017)	3.650*** (0.339)	2.285*** (0.592)	0.872*** (0.061)	0.691*** (0.100)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.051	0.059	0.083	0.098	0.016	0.026

URM Female 3.4

Table 15: Effect on URM Female Speakers

				_		
	% URM Female (1)	% URM Female (2)	Count URM Female (3)	Count URM Female (4)	Any URM Female (5)	Any URM Female (6)
						
Treatment	0.024	-0.040	0.021	0.014	0.014	0.008
	(0.172)	(0.183)	(0.019)	(0.019)	(0.017)	(0.017)
Constant	1.802**	-0.051	0.206***	-0.002	0.175***	-0.014
	(0.604)	(0.582)	(0.060)	(0.091)	(0.049)	(0.078)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	$1.6\overline{5}5$	1.655	$1.6\overline{5}5$	1.655	$1.6\overline{5}5$	1.655
Adjusted R^2	0.014	0.019	0.040	0.049	0.040	0.048
Aujustea n	0.014	0.019	0.040	0.049	0.040	0.048

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Black Female 3.5

Table 16: Effect on Black Female Speakers

	% Black Female (1)	% Black Female (2)	Count Black Female (3)	Count Black Female (4)	Any Black Female (5)	Any Black Female
	(1)	(2)	(3)	(4)	(3)	(6)
Treatment	0.145^{*}	0.155*	0.012	0.013	0.014^{+}	0.015^{+}
	(0.069)	(0.072)	(0.009)	(0.009)	(0.008)	(0.008)
Constant	0.484**	0.068	0.056*	0.003	0.044*	0.003
	(0.152)	(0.271)	(0.024)	(0.042)	(0.020)	(0.036)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	$1,6\bar{5}5$	1,655	$1.6\overline{5}5$	1,655	1.655	1,655
Adjusted \mathbb{R}^2	0.032	0.035	0.024	0.029	0.020	0.025

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

3.6 Black Male

Table 17: Effect on Black Male Speakers

			•		
% Black Male	% Black Male	Count Black Male	Count Black Male	Any Black Male	Any Black Male
(1)	(2)	(3)	(4)	(5)	(6)
0.531*	0.506*	0.072*	0.071*	0.059**	0.058**
(0.264)	(0.248)	(0.034)	(0.033)	(0.022)	(0.022)
2.229**	0.860	0.363***	0.097	0.278***	0.035
(0.709)	(1.165)	(0.092)	(0.142)	(0.060)	(0.102)
Simple	Extended	Simple	Extended	Simple	Extended
1,655	1,655	1,655	1,655	1,655	1,655
0.018	0.022	0.040	0.047	0.035	0.043
	(1) 0.531* (0.264) 2.229** (0.709) Simple 1,655	$ \begin{array}{cccc} (1) & & (2) \\ \hline 0.531^* & 0.506^* \\ (0.264) & (0.248) \\ 2.229^{**} & 0.860 \\ (0.709) & (1.165) \\ \hline Simple & Extended \\ 1,655 & 1,655 \\ \hline \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Hispanic Female 3.7

Table 18: Effect on Hispanic Female Speakers

	% Hispanic	% Hispanic	Count Hispanic	Count Hispanic	Any Hispanic	Any Hispanie
	Female	Female	Female	Female	Female	Female
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	-0.125	-0.202	0.006	-0.000	0.003	-0.003
	(0.161)	(0.175)	(0.013)	(0.013)	(0.012)	(0.012)
Constant	1.293* (0.588)	-0.163 (0.486)	0.061 (0.044)	-0.063 (0.066)	0.055 (0.034)	-0.066 (0.057)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.002	0.004	0.009	0.016	0.008	0.015

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Hispanic Male 3.8

Table 19: Effect on Hispanic Male Speakers

			•	•		
	% Hispanic Male	% Hispanic Male	Count Hispanic Male	Count Hispanic Male	Any Hispanic Male	Any Hispanic Male
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	0.236	0.269	0.010	-0.009	-0.018	-0.029
	(0.387)	(0.397)	(0.044)	(0.043)	(0.025)	(0.025)
Constant	3.683**	2.199	0.581***	0.084	0.425***	0.156
	(1.314)	(1.634)	(0.116)	(0.178)	(0.074)	(0.106)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted \mathbb{R}^2	0.008	0.007	0.014	0.021	0.020	0.026

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

Discipline Subgroup Analysis

4.0.1 Chemistry (N=270)

Table 20: Chemistry: Effect on URM Speaker Representation

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.516	-0.291	-0.101	-0.174	0.027	0.005
	(1.173)	(1.162)	(0.165)	(0.165)	(0.052)	(0.057)
Constant	5.938*	-2.041	0.894*	-0.763	0.197	-0.304
	(2.653)	(5.789)	(0.408)	(0.779)	(0.130)	(0.266)
Controls N Adjusted R^2	Simple 270 -0.025	Extended 270 -0.021	Simple 270 0.101	Extended 270 0.107	Simple 270 0.111	Extended 270 0.119

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Table 21: Chemistry: Effect on Black Speaker Representation

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.740	0.399	0.021	0.024	0.090	0.062
	(1.057)	(0.848)	(0.121)	(0.100)	(0.065)	(0.059)
Constant	2.261	-8.839*	0.314	-1.603*´*	0.120	-0.963**
	(2.566)	(3.921)	(0.246)	(0.535)	(0.155)	(0.295)
Controls	Simple 270 -0.033	Extended	Simple	Extended	Simple	Extended
N		270	270	270	270	270
Adjusted R^2		-0.013	0.045	0.084	0.045	0.098

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Table 22: Chemistry: Effect on Hispanic Speaker Representation

		*	-			
	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanio (6)
Treatment	-0.158 (0.974)	-0.649 (0.985)	-0.135 (0.116)	-0.219 ⁺ (0.125)	-0.101 (0.063)	-0.142* (0.063)
Constant	2.845 (1.778)	4.591 (4.882)	$\stackrel{\circ}{0.548}$ $\stackrel{\circ}{(0.359)}$	0.580 (0.546)	0.223 (0.161)	0.246 (0.303)
Controls N Adjusted R^2	Simple 270 -0.025	Extended 270 -0.022	Simple 270 0.047	Extended 270 0.075	Simple 270 0.037	Extended 270 0.061

Clustered standard errors at department level in parentheses.

p < 0.1; p < 0.05; p < 0.01; p < 0.01; p < 0.001

4.0.2 Mathematics (N=812)

Table 23: Mathematics: Effect on URM Speaker Representation

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	1.080	1.330 ⁺	0.183 ⁺	0.183 ⁺	0.026	0.017
	(0.727)	(0.793)	(0.093)	(0.101)	(0.034)	(0.032)
Constant	5.667***	4.366	0.786***	-0.028	0.484***	0.143
	(1.385)	(4.164)	(0.129)	(0.514)	(0.067)	(0.186)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	812	812	812	812	812	812
Adjusted R^2	0.002	0.000	0.002	0.001	-0.009	0.001

Clustered standard errors at department level in parentheses. $^+p < 0.1; ^*p < 0.05; ^{**}p < 0.01; ^{***}p < 0.001$

Table 24: Mathematics: Effect on Black Speaker Representation

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.229	0.513	0.080	0.116*	0.022	0.032
	(0.392)	(0.428)	(0.049)	(0.054)	(0.029)	(0.027)
Constant	0.908^{+} (0.532)	1.732 (2.406)	0.191** (0.072)	0.326 (0.262)	0.166** (0.051)	0.045 (0.150)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	812	812	812	812	812	812
	0.012	0.020	0.011	0.023	0.006	0.019

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

Table 25: Mathematics: Effect on Hispanic Speaker Representation

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	0.869	0.821	0.107	0.067	0.029	0.011
	(0.627)	(0.676)	(0.071)	(0.068)	(0.033)	(0.035)
Constant	4.683*** (1.262)	(3.194)	0.577*** (0.106)	-0.390 (0.376)	0.384*** (0.073)	0.117 (0.184)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	812	812	812	812	812	812
	-0.004	-0.003	-0.000	0.004	-0.002	-0.000

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^**p < 0.01; \ ^**p < 0.001$

4.0.3 Physics (N=350)

Table 26: Physics: Effect on URM Speaker Representation

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.227 (1.191)	0.131 (1.161)	0.150 (0.131)	0.126 (0.130)	-0.005 (0.059)	-0.004 (0.051)
Constant	13.463*** (2.401)	6.977 (13.865)	1.248*** (0.170)	$ \begin{array}{c} (3.542) \\ (1.447) \end{array} $	0.408*** (0.074)	0.871 (0.555)
Controls N Adjusted R^2	Simple 350 0.004	Extended 350 -0.003	Simple 350 0.003	Extended 350 0.010	Simple 350 0.002	Extended 350 0.032

Table 27: Physics: Effect on Black Speaker Representation

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	1.479* (0.603)	1.604** (0.613)	0.174* (0.068)	0.182** (0.069)	0.123* (0.048)	0.128* (0.050)
Constant	-0.216 (0.409)	-0.091 (4.601)	0.031 (0.082)	0.229 (0.649)	0.048) 0.001 (0.052)	0.030 0.017 (0.443)
Controls N Adjusted R^2	Simple 350 0.002	Extended 350 -0.002	Simple 350 0.020	Extended 350 0.009	Simple 350 0.012	Extended 350 0.015

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

Table 28: Physics: Effect on Hispanic Speaker Representation

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	-1.251	-1.473	-0.024	-0.056	-0.067	-0.069
	(1.177)	(1.180)	(0.114)	(0.116)	(0.064)	(0.059)
Constant	13.679*** (2.400)	7.068 (12.765)	1.217*** (0.153)	1.313 (1.192)	0.436*** (0.081)	0.780 (0.574)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	350	350	350	350	350	350
Adjusted R^2	-0.000	-0.007	-0.008	0.011	-0.003	0.011

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

4.0.4 Computer Science (N=142)

Table 29: Computer Science: Effect on URM Speaker Representation

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	2.148	2.645	0.073	0.063	0.110	0.109
	(1.370)	(1.775)	(0.162)	(0.212)	(0.091)	(0.094)
Constant	7.104***	16.416	1.378***	4.200**	0.882***	2.540***
	(1.952)	(13.370)	(0.329)	(1.453)	(0.186)	(0.674)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	142	142	142	142	142	142
Adjusted R^2	0.031	0.076	0.067	0.058	0.081	0.100

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

Table 30: Computer Science: Effect on Black Speaker Representation

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.203	-0.178	-0.057	-0.065	-0.018	-0.042
	(0.698)	(0.713)	(0.064)	(0.072)	(0.055)	(0.067)
Constant	4.152**	3.617	0.703***	2.104*	0.603***	1.437*
	(1.454)	(9.859)	(0.207)	(0.917)	(0.155)	(0.696)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	142	142	142	142	142	142
	-0.041	-0.076	0.042	0.027	0.051	0.026

Table 31: Computer Science: Effect on Hispanic Speaker Representation

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	1.945	2.823	0.131	0.128	0.136	0.156 ⁺
	(1.458)	(1.754)	(0.145)	(0.182)	(0.096)	(0.089)
Constant	2.952	12.798	0.675*	2.097^{+}	0.589**	2.245**
	(2.209)	(11.268)	(0.305)	(1.089)	(0.224)	(0.704)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	142	142	142	142	142	142
	0.039	0.101	0.029	0.018	0.066	0.088

Clustered standard errors at department level in parentheses.

4.0.5 Mechanical Engineering (N=81)

Table 32: Mechanical Engineering: Effect on URM Speaker Representation

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	3.859 ⁺	2.959	0.665*	0.731 ⁺	0.113	0.107
	(2.026)	(2.002)	(0.300)	(0.370)	(0.116)	(0.130)
Constant	17.140***	0.793	2.618**	1.814	0.792* [*]	0.316
	(5.984)	(11.347)	(0.963)	(2.267)	(0.279)	(0.597)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	81	81	81	81	81	81
Adjusted R^2	0.039	0.055	0.033	0.133	-0.002	-0.009

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^**p < 0.01; \ ^***p < 0.001$

Table 33: Mechanical Engineering: Effect on Black Speaker Representation

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	3.942***	2.942**	0.646***	0.551*	0.346***	0.310**
	(0.999)	(0.937)	(0.185)	(0.210)	(0.090)	(0.097)
Constant	8.540**	6.694	0.966***	0.498	0.818***	0.679
	(2.526)	(5.016)	(0.149)	(1.711)	(0.174)	(0.466)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	81	81	81	81	81	81
	0.153	0.170	0.129	0.185	0.157	0.196

Clustered standard errors at department level in parentheses.

Table 34: Mechanical Engineering: Effect on Hispanic Speaker Representation

		0	0		*	
	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	-0.083 (1.897)	0.017 (1.900)	0.019 (0.227)	0.181 (0.244)	-0.034 (0.122)	0.006 (0.132)
Constant	8.600^{+} (4.526)	-5.901 (11.026)	1.652^{+} (0.926)	1.316 (1.569)	0.585^* (0.291)	0.036 (0.645)
Controls N	Simple 81	Extended 81	Simple 81	Extended 81	Simple 81	Extended 81
Adjusted \mathbb{R}^2	-0.053	-0.041	0.025	0.067	-0.015	0.001

p < 0.1; p < 0.05; p < 0.01; p < 0.01; p < 0.001

⁺p < 0.1; *p < 0.05; **p < 0.01; ***p < 0.001

4.1 Testing for Significant Moderation Across Disciplines

F-test for Treatment × Discipline Interactions (Black Speakers): F-statistic: 3.608 p-value: 0.0062 Degrees of freedom: 4

The treatment effect on Black speaker representation varies significantly across disciplines (p < 0.05). This indicates that the diversity intervention has heterogeneous effects depending on the academic field.

F-test for Treatment × Discipline Interactions (URM Speakers): F-statistic: 0.649 p-value: 0.6276 Degrees of freedom: 4

\textbf{F-test for Treatment \times Discipline Interactions (% Black Speakers):} F-statistic: 2.431 p-value: 0.0458 Degrees of freedom: 4

F-test for Treatment \times Discipline Interactions (Total Black Speakers): F-statistic: 4.13 p-value: 0.0025 Degrees of freedom: 4

Individual Interaction Effects (Black Speakers): Estimate Std. Error t value Pr(>|t|) treatment:disc_mathematics -0.0584 0.0605 -0.9662 0.3341 treatment:disc_physics 0.0222 0.0685 0.3244 0.7457 treatment:disc_computer_science -0.1074 0.0879 -1.2225 0.2217 treatment:disc_mechanical_engineering 0.2797 0.1059 2.6419 0.0083

5 Semester-Specific Analysis

5.1 Fall Semester

Call: lm(formula = as.formula(formula_str), data = data_complete)

Residuals: Min 1Q Median 3Q Max -12.605 -7.477 -4.980 3.554 95.007

Coefficients: Estimate Std. Error t value Pr(>|t|)

(Intercept) 6.35696 2.14015 2.970 0.00302 treatment 0.94922 0.72180 1.315 0.18870

bin 0 1 1.48922 1.89568 0.786 0.43224

bin 1 3 1.14316 1.82433 0.627 0.53101

bin 3 5 2.00801 1.74786 1.149 0.25081

bin 5 7-0.03272 1.74150 -0.019 0.98501

 $\mathbf{bin}_7_11\ \mathbf{2.18899}\ 1.68911\ 1.296\ 0.19520$

bin_11_17 -1.42973 1.67659 -0.853 0.39393

disc mathematics 0.05245 1.19124 0.044 0.96489

disc_physics 0.34638 1.21922 0.284 0.77637

batch 1 $0.87044 \ 1.66325 \ 0.523 \ 0.60082$

batch 2 1.38845 1.96032 0.708 0.47889

batch 3-2.13347 1.55207 -1.375 0.16947

batch $4\ 2.76342\ 1.55058\ 1.782\ 0.07493$ batch $5\ 0.89058\ 1.51030\ 0.590\ 0.55551$

batch $6 - 0.14252 \ 1.51698 - 0.094 \ 0.92516$

 $batch_7 -1.22984 1.50242 -0.819 0.41317$

batch $8\ 0.61867\ 1.60368\ 0.386\ 0.69972$

batch 9 -2.64601 1.53713 -1.721 0.08539 . — Signif. codes: 0 '' 0.001 '' 0.01 '' 0.05 '.' 0.1 '' '1

Residual standard error: 13.5 on 1427 degrees of freedom Multiple R-squared: 0.03113, Adjusted R-squared: 0.01755 F-statistic: 2.292 on 20 and 1427 DF, p-value: 0.000971

Table 35: Fall: Effect on URM Speakers

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.949	0.859	0.078 ⁺	0.049	0.033	0.020
	(0.695)	(0.687)	(0.046)	(0.044)	(0.025)	(0.025)
Constant	6.357**	-2.483	0.538***	-0.283	0.366***	-0.058
	(2.449)	(3.059)	(0.145)	(0.212)	(0.070)	(0.111)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,448	1,448	1,448	1,448	1,448	1,448
	0.018	0.026	0.024	0.040	0.023	0.035

Clustered standard errors at department level in parentheses.

Table 36: Fall: Effect on Black Speakers

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.494	0.456	0.053*	0.050*	0.043**	0.042*
	(0.333)	(0.334)	(0.021)	(0.021)	(0.017)	(0.017)
Constant	2.863** (0.987)	-1.651 (1.434)	0.224*** (0.061)	-0.075 (0.097)	0.172*** (0.046)	-0.067 (0.080)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,448	1,448	1,448	1,448	1,448	1,448
	0.023	0.037	0.033	0.046	0.028	0.041

Clustered standard errors at department level in parentheses.

⁺p < 0.1; *p < 0.05; **p < 0.01; ***p < 0.001

 $^{^{+}}p < 0.1; *p < 0.05; **p < 0.01; ***p < 0.001$

Table 37: Fall: Effect on Hispanic Speakers

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	0.437	0.371	0.024	-0.003	0.009	-0.006
	(0.635)	(0.657)	(0.038)	(0.038)	(0.024)	(0.025)
Constant	3.351	-1.075	0.301*	-0.231	0.236**	-0.066
	(2.358)	(2.931)	(0.134)	(0.188)	(0.073)	(0.109)
Controls N Adjusted R^2	Simple 1,448 0.011	Extended 1,448 0.010	Simple 1,448 0.020	Extended 1,448 0.030	Simple 1,448 0.022	Extended 1,448 0.028

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

Spring Semester

Table 38: Spring: Effect on URM Speakers

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.783	0.878	0.027	0.030	-0.007	-0.007
	(0.744)	(0.777)	(0.055)	(0.056)	(0.029)	(0.028)
Constant	7.449***	6.781*	0.886***	0.761* [*]	0.509***	0.378**
	(1.709)	(2.884)	(0.140)	(0.240)	(0.075)	(0.121)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,389	1,389	1,389	1,389	1,389	1,389
	0.006	0.006	0.024	0.022	0.025	0.028

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^**p < 0.01; \ ^***p < 0.001$

Table 39: Spring: Effect on Black Speakers

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.822 ⁺	0.820 ⁺	0.038	0.040	0.028	0.030
	(0.460)	(0.440)	(0.035)	(0.034)	(0.023)	(0.023)
Constant	1.802^{+} (1.023)	1.456 (1.712)	0.315*** (0.088)	0.301* (0.147)	0.230*** (0.059)	0.174^{+} (0.100)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,389	1,389	1,389	1,389	1,389	1,389
Adjusted R^2	0.010	0.010	0.032	0.034	0.023	0.022

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

Table 40: Spring: Effect on Hispanic Speakers

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)				
Treatment	-0.018	0.072	-0.010	-0.011	-0.030	-0.031				
	(0.628)	(0.675)	(0.040)	(0.040)	(0.026)	(0.027)				
Constant	5.424***	5.097*	0.553***	0.438**	0.389***	0.296**				
	(1.403)	(2.466)	(0.097)	(0.169)	(0.071)	(0.103)				
Controls	Simple	Extended	Simple	Extended	Simple	Extended				
N	1,389	1,389	1,389	1,389	1,389	1,389				
Adjusted R^2	-0.004	-0.003	0.008	0.010	0.014	0.017				

6 Heterogeneity Analysis

Moderation by Department Ranking 6.1

6.2 **URM Speakers**

Table 41: Effect on URM Speakers: Moderation by Department Ranking

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.729	0.710	0.101	0.068	0.022	0.011
	(0.515)	(0.512)	(0.065)	(0.063)	(0.025)	(0.023)
Constant	9.084***	4.778*	1.059***	0.220	0.515***	0.185^{+}
	(1.636)	(1.962)	(0.178)	(0.249)	(0.079)	(0.109)
Department Ranking	0.015	0.029*	-0.003*	-0.001	-0.002***	-0.001
	(0.013)	(0.013)	(0.001)	(0.001)	(0.001)	(0.001)
Treatment \times Department Ranking	0.008	0.007	0.005*	0.005**	0.001	0.001^{+}
	(0.016)	(0.016)	(0.002)	(0.002)	(0.001)	(0.001)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.013	0.017	0.034	0.044	0.031	0.043

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

BLACK Speakers 6.3

Table 42: Effect on Black Speakers: Moderation by Department Ranking

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.658*	0.657*	0.081*	0.079*	0.056*	0.054*
	(0.307)	(0.291)	(0.039)	(0.037)	(0.023)	(0.023)
Constant	3.202*** (0.840)	1.541 (1.168)	0.483*** (0.115)	0.171 (0.151)	0.263*** (0.066)	0.052 (0.097)
Department Ranking	0.006 (0.007)	0.012 (0.008)	-0.000 (0.001)	0.001 (0.001)	-0.001 ⁺ (0.000)	-0.000 (0.001)
Treatment \times Department Ranking	0.004	0.002	0.002*	0.002^{+}	0.001	0.001
	(0.009)	(0.009)	(0.001)	(0.001)	(0.001)	(0.001)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.027	0.030	0.052	0.059	0.037	0.044

Table 43: Effect on Hispanic Speakers: Moderation by Department Ranking

	% Hispanic	% Hispanic	Count Hispanic	Count Hispanic	Any Hispanic	Any Hispanic
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	0.088	0.058	0.020	-0.013	-0.016	-0.030
	(0.453)	(0.468)	(0.049)	(0.048)	(0.025)	(0.025)
Constant	5.606***	2.954	0.541***	0.005	0.389***	0.138
	(1.522)	(1.796)	(0.149)	(0.198)	(0.079)	(0.101)
Department Ranking	0.008	0.017	-0.003**	-0.001	-0.001*	-0.000
	(0.011)	(0.011)	(0.001)	(0.001)	(0.001)	(0.001)
Treatment × Department Ranking	0.005	0.005	0.002^{+}	0.003*	0.001	0.001
	(0.013)	(0.013)	(0.001)	(0.001)	(0.001)	(0.001)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.005	0.006	0.018	0.024	0.021	0.026

Moderation by Total Faculty Size 6.5

URM Speakers 6.6

Table 44: Effect on URM Speakers: Moderation by Total Faculty

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.958 ⁺	0.744	0.080	0.072	0.012	0.014
	(0.531)	(0.511)	(0.068)	(0.064)	(0.025)	(0.024)
Constant	7.792*** (1.568)	2.224 (2.043)	1.087*** (0.177)	0.191 (0.279)	0.551*** (0.071)	0.185^{+} (0.111)
Total Faculty	-0.039	-0.032	0.003	0.002	0.001	-0.001
	(0.026)	(0.026)	(0.003)	(0.003)	(0.001)	(0.001)
Treatment \times Total Faculty	$0.030 \\ (0.029)$	0.016 (0.028)	-0.001 (0.003)	-0.003 (0.003)	0.001 (0.001)	0.000 (0.001)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.012	0.017	0.030	0.039	0.029	0.041

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

BLACK Speakers 6.7

Table 45: Effect on Black Speakers: Moderation by Total Faculty

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.769*	0.655*	0.091*	0.078*	0.055*	0.053*
	(0.310)	(0.290)	(0.041)	(0.037)	(0.023)	(0.023)
Constant	2.798***	0.320	0.462***	0.034	0.302***	0.016
	(0.795)	(1.329)	(0.103)	(0.170)	(0.064)	(0.104)
Total Faculty	-0.014	-0.013	-0.000	-0.000	0.001	-0.000
	(0.011)	(0.010)	(0.001)	(0.002)	(0.001)	(0.001)
Treatment × Total Faculty	$0.004 \\ (0.015)$	-0.004 (0.014)	-0.002 (0.002)	-0.003^+ (0.002)	-0.001 (0.001)	-0.002 (0.001)
Controls N Adjusted R^2	Simple 1,655 0.026	Extended $1,655$ 0.030	Simple 1,655 0.048	Extended 1,655 0.057	Simple $1,655$ 0.035	Extended 1,655 0.045

Table 46: Effect on Hispanic Speakers: Moderation by Total Faculty

	% Hispanic	% Hispanic	Count	Count	Any Hispanic	Any Hispanio
	(1)	(2)	Hispanic (3)	Hispanic (4)	(5)	(6)
Treatment	0.194	0.093	-0.012	-0.008	-0.029	-0.027
	(0.467)	(0.465)	(0.048)	(0.048)	(0.025)	(0.025)
Constant	4.788**	1.726	0.597***	0.127	0.393***	0.182^{+}
	(1.489)	(1.764)	(0.149)	(0.202)	(0.071)	(0.107)
Total Faculty	-0.023	-0.017	0.004	0.002	0.001	0.000
	(0.026)	(0.026)	(0.003)	(0.003)	(0.001)	(0.001)
Treatment \times Total Faculty	0.024 (0.027)	0.019 (0.026)	0.001 (0.003)	0.001 (0.003)	0.002 (0.001)	0.001 (0.001)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.005	0.006	0.018	0.022	0.023	0.026

Moderation by URM Faculty in Peer Departments 6.9

6.10 **URM Speakers**

Table 47: Effect on URM Speakers: Moderation by Peer URM Faculty

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.779	0.696	0.105	0.073	0.022	0.013
	(0.519)	(0.516)	(0.064)	(0.064)	(0.025)	(0.023)
Constant	7.738***	6.936***	1.054***	0.760***	0.552***	0.409***
	(1.569)	(1.811)	(0.162)	(0.220)	(0.069)	(0.098)
Peer URM Faculty	$0.072^{'}$	0.145**	0.017* [*]	0.021***	0.007**	0.007**
ů	(0.053)	(0.054)	(0.005)	(0.006)	(0.002)	(0.002)
Treatment × Peer URM Faculty	-0.064	-0.054	-0.004	-0.006	-0.001	-0.001
·	(0.072)	(0.071)	(0.008)	(0.008)	(0.003)	(0.003)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.011	0.017	0.037	0.039	0.037	0.041

Clustered standard errors at department level in parentheses. $^+p < 0.1; *p < 0.05; **p < 0.01; ***p < 0.001$

6.11 **BLACK Speakers**

Table 48: Effect on Black Speakers: Moderation by Peer URM Faculty

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.679* (0.305)	0.663* (0.291)	0.085* (0.039)	0.083* (0.037)	0.057* (0.023)	0.057* (0.023)
Constant	2.682***	2.371^{*}	0.419***	0.357^{st}	0.277***	0.222**
Peer URM Faculty	(0.784) 0.011	(1.006) 0.039	(0.102) 0.003	(0.143) 0.007	(0.061) 0.003	(0.085) 0.003
Treatment \times Peer URM Faculty	(0.023) -0.001 (0.037)	(0.029) 0.007 (0.037)	(0.003) 0.000 (0.005)	(0.004) 0.001 (0.005)	(0.002) 0.003 (0.002)	(0.002) 0.003 (0.003)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N Adjusted R^2	1,655 0.025	1,655 0.030	1,655 0.048	1,655 0.056	1,655 0.040	1,655 0.044

Table 49: Effect on Hispanic Speakers: Moderation by Peer URM Faculty

	% Hispanic	% Hispanic	Count Hispanic (3)	Count Hispanic	Any Hispanic	Any Hispanio
	(1)	(2)		(4)	(5)	(6)
Treatment	0.114	0.038	0.020	-0.012	-0.015	-0.029
Constant	(0.454) $4.841***$	$(0.472) \\ 4.262^*$	(0.047) $0.608***$	$(0.048) \\ 0.357^{+}$	(0.025) $0.415***$	(0.025) $0.282**$
D IIDM Eli	(1.426)	(1.696)	(0.131)	(0.182)	(0.072) 0.005^*	(0.087)
Peer URM Faculty	0.062 (0.048)	0.104* (0.051)	0.015*** (0.004)	0.014^{**} (0.005)	(0.002)	0.005^+ (0.003)
Treatment \times Peer URM Faculty	-0.064 (0.063)	-0.062 (0.063)	-0.005 (0.006)	-0.007 (0.006)	0.000 (0.003)	-0.001 (0.003)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N Adjusted R^2	1,655 0.006	1,655 0.006	1,655 0.022	1,655 0.022	$1,655 \\ 0.024$	$1,655 \\ 0.025$

Moderation by % Female Email Recipients 6.13

6.14 **URM Speakers**

Table 50: Effect on URM Speakers: Moderation by % Female Recipients

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.046	0.039	0.041	0.016	-0.006	-0.011
	(0.669)	(0.659)	(0.084)	(0.082)	(0.032)	(0.030)
Constant	8.300*** (1.668)	3.639^{+} (2.070)	1.161*** (0.177)	0.216 (0.275)	0.602*** (0.073)	0.219^{+} (0.115)
% Female Recipients	-1.112	-1.145	-0.206	-0.215	-0.104	-0.093
	(1.314)	(1.318)	(0.158)	(0.160)	(0.064)	(0.063)
Treatment \times % Female Recipients	3.723^{+} (1.923)	3.469^{+} (1.917)	0.277 (0.226)	0.271 (0.223)	0.120 (0.086)	0.108 (0.083)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.012	0.018	0.030	0.039	0.028	0.042

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

BLACK Speakers 6.15

Table 51: Effect on Black Speakers: Moderation by % Female Recipients

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.389	0.432	0.078	0.085 ⁺	0.044	0.048 ⁺
	(0.391)	(0.390)	(0.050)	(0.050)	(0.029)	(0.029)
Constant	2.799** (0.858)	1.028 (1.305)	0.443*** (0.110)	0.106 (0.168)	0.291*** (0.064)	0.053 (0.105)
% Female Recipients	-0.133	0.071	-0.060	-0.031	-0.007	0.007
	(0.848)	(0.847)	(0.099)	(0.101)	(0.060)	(0.061)
Treatment × % Female Recipients	1.546 (1.383)	1.285 (1.374)	0.016 (0.132)	-0.020 (0.131)	0.063 (0.085)	0.043 (0.084)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.027	0.031	0.047	0.055	0.035	0.043

Table 52: Effect on Hispanic Speakers: Moderation by % Female Recipients

	% Hispanic	% Hispanic	Count Hispanic	Count Hispanic	Any Hispanic	Any Hispanic
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	-0.318	-0.377	-0.038	-0.071	-0.023	-0.038
	(0.594)	(0.602)	(0.063)	(0.062)	(0.032)	(0.033)
Constant	5.266***	2.381	0.690***	0.074	0.446***	0.155
	(1.536)	(1.847)	(0.146)	(0.212)	(0.076)	(0.107)
% Female Recipients	-0.889	-1.145	-0.137	-0.179	-0.067	-0.079
*	(1.069)	(1.103)	(0.122)	(0.123)	(0.066)	(0.067)
Treatment × % Female Recipients	$2.143^{'}$	2.145	0.264	0.294	0.018	0.027
•	(1.708)	(1.701)	(0.184)	(0.183)	(0.090)	(0.092)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.005	0.006	0.015	0.022	0.019	0.025

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Moderation by % URM Email Recipients 6.17

6.18 **URM Speakers**

Table 53: Effect on URM Speakers: Moderation by % URM Recipients

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.261	0.269	0.099	0.077	0.021	0.015
Constant	(0.565) $8.132***$	$(0.563) \\ 3.390$	(0.074) $1.103***$	$(0.072) \\ 0.161$	$(0.028) \\ 0.572***$	(0.026) 0.193
	(1.635)	(2.072)	(0.171)	(0.278)	(0.073)	(0.118)
% URM Recipients	0.556 (2.108)	0.897 (2.039)	-0.007 (0.225)	0.010 (0.225)	0.017 (0.102)	0.041 (0.100)
Treatment \times % URM Recipients	7.348* (3.594)	6.524^{+} (3.551)	0.026 (0.348)	-0.012 (0.343)	-0.001 (0.143)	-0.020 (0.136)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.016	0.022	0.029	0.038	0.027	0.041

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

BLACK Speakers 6.19

Table 54: Effect on Black Speakers: Moderation by % URM Recipients

		*	·	v i		
	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.287 (0.320)	0.285 (0.312)	0.065 (0.043)	0.068 (0.042)	0.044 ⁺ (0.025)	0.044 ⁺ (0.025)
Constant	2.961***	$1.224^{'}$	0.447***	0.124	0.299***	0.065
% URM Recipients	(0.798) -0.912	(1.291) -0.897	(0.103) -0.177	(0.169) -0.154	(0.060) -0.112	(0.104) -0.106
Treatment × % URM Recipients	(1.102) $5.395*$	(1.081) 5.131^+	(0.124) 0.235	(0.121) 0.182	(0.081) 0.148	(0.077) 0.133
Treatment × // Citim receptions	(2.647)	(2.675)	(0.213)	(0.207)	(0.132)	(0.124)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.032	0.036	0.048	0.056	0.036	0.044

Table 55: Effect on Hispanic Speakers: Moderation by % URM Recipients

	% Hispanic	% Hispanic	Count Hispanic (3)	Count Hispanic	Any Hispanic	Any Hispanio
	(1)	(2)		(4)	(5)	(6)
Treatment	-0.017	-0.019	0.031	0.005	-0.016	-0.027
	(0.509)	(0.523)	(0.056)	(0.054)	(0.028)	(0.028)
Constant	4.963**	1.958	0.632***	0.004	0.425***	0.135
	(1.522)	(1.891)	(0.140)	(0.211)	(0.076)	(0.108)
% URM Recipients	1.441	1.734	0.156	0.146	0.051	0.069
•	(1.779)	(1.760)	(0.172)	(0.177)	(0.092)	(0.095)
Treatment × % URM Recipients	2.018	1.501	-0.187	-0.167	-0.012	-0.019
•	(3.163)	(3.118)	(0.254)	(0.257)	(0.144)	(0.144)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,655	1,655	1,655	1,655	1,655	1,655
Adjusted R^2	0.006	0.007	0.014	0.021	0.019	0.025

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Moderation by % URM Faculty in Department 6.21

6.22 **URM Speakers**

Table 56: Effect on URM Speakers: Moderation by % URM Faculty

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	-0.339	-0.207	-0.024	-0.042	0.009	-0.001
	(0.749)	(0.746)	(0.094)	(0.093)	(0.035)	(0.033)
Constant	7.944*** (1.659)	3.544^{+} (2.078)	1.108*** (0.172)	0.209 (0.270)	0.575*** (0.073)	0.203^{+} (0.116)
% URM Faculty	-6.109	-4.914	-0.793	-0.983	-0.181	-0.360
	(9.919)	(9.809)	(1.207)	(1.144)	(0.548)	(0.509)
Treatment \times % URM Faculty	28.946^{+} (15.678)	25.697^{+} (15.501)	3.257^{+} (1.960)	3.273^{+} (1.936)	0.327 (0.666)	0.397 (0.651)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.013	0.018	0.032	0.041	0.027	0.041

Clustered standard errors at department level in parentheses. $^+p<0.1;\,^*p<0.05;\,^{**}p<0.01;\,^{***}p<0.001$

BLACK Speakers 6.23

Table 57: Effect on Black Speakers: Moderation by % URM Faculty

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.050	0.109	-0.002	0.003	0.019	0.020
	(0.374)	(0.374)	(0.051)	(0.051)	(0.031)	(0.031)
Constant	2.684**	1.144	0.434***	0.134	0.287***	0.065
	(0.815)	(1.314)	(0.107)	(0.165)	(0.062)	(0.104)
% URM Faculty	-0.853	-0.770	-0.603	-0.636	-0.163	-0.272
	(4.612)	(4.637)	(0.616)	(0.606)	(0.407)	(0.390)
Treatment \times % URM Faculty	(8.399)	(8.347)	2.257* (1.082)	2.197* (1.024)	0.947 (0.577)	0.976^{+} (0.561)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,655	1,655	1,655	1,655	1,655	1,655
	0.029	0.032	0.051	0.059	0.037	0.045

Table 58: Effect on Hispanic Speakers: Moderation by % URM Faculty

	% Hispanic	% Hispanic	Count Hispanic	Count Hispanic	Any Hispanic	Any Hispani	
	(1)	(2) (3)		(4)	(5)	(6)	
Treatment	-0.397	-0.329	-0.030	-0.055	0.002	-0.011	
	(0.729)	(0.732)	(0.081)	(0.080)	(0.036)	(0.036)	
Constant	5.045***	2.191	0.650***	0.041	0.431***	0.134	
	(1.518)	(1.859)	(0.141)	(0.210)	(0.074)	(0.107)	
% URM Faculty	-5.206	-4.176	-0.278	-0.448	-0.021	-0.103	
-	(8.634)	(8.437)	(0.969)	(0.926)	(0.516)	(0.495)	
Treatment × % URM Faculty	13.570	10.946	1.209	1.271	-0.485	-0.493	
·	(15.052)	(14.934)	(1.711)	(1.743)	(0.667)	(0.660)	
Controls	Simple	Extended	Simple	Extended	Simple	Extended	
N	1,655	1,655	1,655	1,655	1,655	1,655	
Adjusted R^2	0.005	0.006	0.014	0.022	0.019	0.025	

Clustered standard errors at department level in parentheses. $^+p < 0.1; \ ^*p < 0.05; \ ^{**}p < 0.01; \ ^{***}p < 0.001$

Moderation by % Women Faculty in Department 6.25

6.26 **URM Speakers**

Table 59: Effect on URM Speakers: Moderation by % Women Faculty

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	1.719 (1.514)	2.020 (1.482)	0.186 (0.198)	0.138 (0.197)	0.099 (0.074)	0.069 (0.069)
Constant	6.082** (1.921)	2.843 (2.141)	0.956*** (0.217)	0.146 (0.276)	0.494*** (0.088)	0.182 (0.118)
% Women Faculty	8.999^{+} (4.940)	9.169^{+} (4.878)	0.729 (0.721)	0.730 (0.706)	0.420 (0.285)	0.451^{+} (0.268)
Treatment \times % Women Faculty	-5.394 (7.314)	-6.592 (7.064)	-0.479 (1.003)	-0.316 (0.976)	(0.359)	-0.285 (0.338)
Controls N	Simple 1.655	Extended 1,655	Simple 1,655	Extended 1.655	Simple 1,655	Extended 1,655
Adjusted R^2	0.012	0.017	0.030	0.039	0.028	0.042

Clustered standard errors at department level in parentheses. $^+p < 0.1; *p < 0.05; **p < 0.01; ***p < 0.001$

BLACK Speakers 6.27

Table 60: Effect on Black Speakers: Moderation by % Women Faculty

		-		*	*	
	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.343 (0.803)	0.547 (0.769)	0.053 (0.111)	0.060 (0.108)	0.044 (0.067)	0.045 (0.067)
Constant	2.287** (0.884)	0.958 (1.329)	0.366** (0.120)	0.109 (0.167)	0.246*** (0.074)	0.053 (0.106)
% Women Faculty	1.623 (2.746)	1.941 (2.604)	0.249 (0.380)	0.296 (0.352)	0.175 (0.246)	0.220 (0.231)
Treatment \times % Women Faculty	1.493 (4.389)	0.574 (4.025)	0.128 (0.611)	0.113 (0.567)	0.045 (0.340)	0.050 (0.330)
Controls N	Simple 1,655	Extended 1,655	Simple 1,655	Extended 1,655	Simple 1,655	Extended 1,655
Adjusted R^2	0.026	0.030	0.048	0.056	0.035	0.043

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

Table 61: Effect on Hispanic Speakers: Moderation by % Women Faculty

	% Hispanic	% Hispanic	Count Hispanic	Count Hispanic	Any Hispanic	Any Hispani	
	(1)	(2)	(3)	(4)	(5)	(6)	
Treatment	1.338	1.443	0.128	0.074	0.093	0.053	
	(1.332)	(1.338)	(0.147)	(0.147)	(0.073)	(0.073)	
Constant	3.532*	1.677	0.549**	0.002	0.351***	0.120	
	(1.750)	(1.912)	(0.173)	(0.217)	(0.084)	(0.108)	
% Women Faculty	7.558^{+}	7.409^{+}	0.541	0.493	0.447^{+}	0.423	
ū	(4.163)	(4.144)	(0.533)	(0.545)	(0.258)	(0.264)	
Treatment × % Women Faculty	-6.645	-6.988	-0.593	-0.418	-0.579 ⁺	-0.417	
	(6.114)	(6.073)	(0.696)	(0.693)	(0.338)	(0.340)	
Controls	Simple	Extended	Simple	Extended	Simple	Extended	
N	1,655	1,655	1,655	1,655	1,655	1,655	
Adjusted \mathbb{R}^2	0.006	0.006	0.014	0.022	0.021	0.026	

Moderation by Number of Distinct Seminars 6.29

URM Speakers 6.30

Table 62: Effect on URM Speakers: Moderation by Number of Seminars

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.748 (0.517)	0.626 (0.516)	0.099 (0.066)	0.062 (0.064)	0.020 (0.025)	0.009 (0.024)
Constant	11.207*** (2.763)	5.224^{+} (2.726)	1.032*** (0.288)	0.240 (0.321)	0.432*** (0.121)	0.149 (0.160)
Number of Seminars	-0.237 (0.191)	-0.161 (0.179)	0.012 (0.022)	-0.001 (0.021)	0.014 (0.009)	0.007 (0.010)
Treatment \times Number of Seminars	-0.074 (0.085)	-0.096 (0.089)	-0.008 (0.010)	-0.019^+ (0.011)	-0.003 (0.004)	-0.008^+ (0.005)
Controls N Adjusted R^2	Simple 1,655 0.012	Extended 1,655 0.017	Simple 1,655 0.029	Extended 1,655 0.039	Simple 1,655 0.028	Extended 1,655 0.042

Clustered standard errors at department level in parentheses. $^+p < 0.1; \,^*p < 0.05; \,^{**}p < 0.01; \,^{***}p < 0.001$

BLACK Speakers 6.31

Table 63: Effect on Black Speakers: Moderation by Number of Seminars

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.668* (0.303)	0.652* (0.286)	0.083* (0.038)	0.081* (0.037)	0.055* (0.022)	0.053* (0.022)
Constant	1.117 (1.259)	-1.195 (1.738)	0.085 (0.146)	-0.319^{+} (0.192)	0.035 (0.097)	-0.192 (0.118)
Number of Seminars	0.187* (0.087)	0.225^* (0.097)	0.038*** (0.010)	0.044*** (0.011)	0.028*** (0.007)	0.026*** (0.007)
Treatment \times Number of Seminars	-0.067 (0.041)	-0.068 (0.044)	-0.011* (0.005)	-0.013* (0.006)	-0.008* (0.004)	-0.009* (0.004)
Controls N Adjusted R^2	Simple 1,655 0.027	Extended $1,655$ 0.032	Simple 1,655 0.053	Extended 1,655 0.063	Simple 1,655 0.043	Extended 1,655 0.050

Table 64: Effect on Hispanic Speakers: Moderation by Number of Seminars

	% Hispanic	% Hispanic	Count Hispanic	Count Hispanic	Any Hispanic	Any Hispanic
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	0.094 (0.445)	-0.022 (0.470)	0.017 (0.048)	-0.021 (0.047)	-0.016 (0.025)	-0.032 (0.025)
Constant	9.973*** (2.348)	6.382* (2.609)	0.940*** (0.203)	0.555^* (0.241)	0.469*** (0.106)	0.266^{+} (0.137)
Number of Seminars	-0.434** (0.158)	-0.403* (0.165)	-0.029 ⁺ (0.016)	-0.049** (0.016)	-0.006 (0.008)	-0.011 (0.008)
Treatment \times Number of Seminars	-0.005 (0.075)	-0.027 (0.079)	0.004 (0.009)	-0.006 (0.008)	0.003 (0.005)	-0.002 (0.005)
Controls N Adjusted R^2	Simple 1,655 0.009	Extended 1,655 0.008	Simple 1,655 0.015	Extended 1,655 0.026	Simple 1,655 0.019	Extended 1,655 0.026

6.33 Junior vs Senior Speaker Analysis

6.33.1 Analysis: Treatment effects on representation by speaker career stage

This analysis examines whether the treatment differentially affects the representation of junior versus senior speakers. We define: - **Junior speakers**: Those below the median years since PhD completion - **Senior speakers**: Those above the median years since PhD completion

We analyze treatment effects on three types of outcomes for each demographic group (URM, Black, Hispanic):
1. **Percentage**: What percentage of speakers from a demographic group are junior (or senior)? 2. **Count**: How many speakers from a demographic group are junior (or senior)? 3. **Binary**: Does the seminar have any junior (or senior) speakers from this demographic group?

6.34 Seniority Data Coverage

Total seminars analyzed: $1655 \setminus [0.3\text{em}]$ Seminars with junior speakers: $1518 \cdot (91.7\%) \setminus [0.3\text{em}]$ Seminars with senior speakers: $1536 \cdot (92.8\%) \setminus [0.3\text{em}]$ Mean junior speakers per seminar: $5.99 \setminus [0.3\text{em}]$ Mean senior speakers per seminar: $5.87 \setminus [0.3\text{em}]$ Median years since PhD (cutoff): $12.0 \setminus [0.5\text{em}]$

6.35 URM Speakers by Career Stage

Table 65: Treatment Effects on Junior and Senior URM Speakers

	Junior	Speakers	Senior Speakers			
Outcome	Model 1	Model 2	Model 1	Model 2		
% of speakers	0.0106	0.0062	0.0056	0.0073		
Count	0.0598	0.0386	-0.0258	-0.0235		
Any $(0/1)$	0.0237	0.0104	-0.0119	-0.0066		
$Mean\ (Control)$						
% of speakers	0.069		0.059			
Count	0.410		0.401			
Any $(0/1)$	0.301		0.284			

Note: + p<0.1; * p<0.05; *** p<0.01; *** p<0.001. Standard errors clustered at the department level. Junior speakers are defined as those below the median years since PhD; senior speakers are above the median. Model 1 includes baseline controls; Model 2 adds extended controls.

6.36 Black Speakers by Career Stage

Table 66: Treatment Effects on Junior and Senior Black Speakers

	Junior	Speakers	Senior Speakers		
Outcome	Model 1	Model 2	Model 1	Model 2	
% of speakers	0.0090 +	0.0075	0.0041	0.0046	
Count	0.0454*	0.0454*	0.0053	0.0046	
Any (0/1)	0.0411**	0.0413*	0.0125	0.0123	
Mean (Control)					
% of speakers	0.020		0.013		
Count	0.109		0.111		
Any (0/1)	0.093		0.089		

Note: + p<0.1; * p<0.05; *** $\overline{}$ p<0.01; *** p<0.001. Standard errors clustered at the department level. Junior speakers are defined as those below the median years since PhD; senior speakers are above the median. Model 1 includes baseline controls; Model 2 adds extended controls.

6.37 Hispanic Speakers by Career Stage

Table 67: Treatment Effects on Junior and Senior Hispanic Speakers

	Junior	Speakers	Senior Speakers		
Outcome	Model 1	Model 2	Model 1	Model 2	
% of speakers	0.0013	-0.0018	0.0014	0.0027	
Count	0.0130	-0.0100	-0.0311	-0.0280	
Any $(0/1)$	-0.0114	-0.0273	-0.0173	-0.0134	
Mean (Control)					
% of speakers	0.048		0.046		
Count	0.299		0.290		
Any $(0/1)$	0.238		0.222		

Note: + p < 0.1; * p < 0.05; *** p < 0.01; *** p < 0.001. Standard errors clustered at the department level. Junior speakers are defined as those below the median years since PhD; senior speakers are above the median. Model 1 includes baseline controls; Model 2 adds extended controls.

7 Summary of All Significant Results

Table 68: All Significant Results (p < 0.1) from All Analyses - Part 1 of 2

Analysis		Outcome	Variable	Model	Coef.	SE	t-stat	p-value	Sig
Career Stage An	alysis								
Junior/Senior	Black	Junior Any $(0/1)$	Treatment	Simple	0.0411	0.0158	2.594	0.0096	**
Speakers			-	a					
Junior/Senior	Black	Junior Count	Treatment	Simple	0.0454	0.0200	2.265	0.0236	*
Speakers	Dla al-	Tion							
Junior/Senior Speakers	Diack	Junior							
•									
Demographic Su									
Demographic Subg		% Black	Treatment	Extended	0.6604	0.2936	2.249	0.0246	*
Demographic Subg		% Black Female	Treatment	Extended	0.1546	0.0720	2.146	0.0320	*
Demographic Subg		% Black Male	Treatment	Extended	0.5058	0.2483	2.037	0.0418	*
Demographic Subg	-	Any Black	Treatment	Simple	0.0558	0.0227	2.457	0.0141	
Demographic Subg	roup	Any Black Fe- male	Treatment	Extended	0.0149	0.0081	1.837	0.0663	+
Demographic Subg	roup	Any Black Male	Treatment	Simple	0.0590	0.0225	2.625	0.0087	**
Demographic Subg	roup	Count Black	Treatment	Extended	0.0826	0.0377	2.192	0.0285	*
Demographic Subg	roup	Count Black	Treatment	Extended	0.0710	0.0326	2.176	0.0297	*
		Male							
Discipline Analy	sis								
Chemistry		Any Hispanic	Treatment	Extended	-0.1418	0.0630	-2.250	0.0253	*
Chemistry		Count Hispanic	Treatment	Extended	-0.2186	0.1246	-1.755	0.0805	+
Computer Science		Any Hispanic	Treatment	Extended	0.1556	0.0892	1.745	0.0836	+
Mathematics		% URM	Treatment	Extended	1.3298	0.7933	1.676	0.0941	+
Mathematics		Count Black	Treatment	Extended	0.1164	0.0542	2.146	0.0322	*
Mathematics		Count URM	Treatment	Simple	0.1828	0.0935	1.956	0.0508	+
Mechanical Engine	ering	% Black	Treatment	Simple	3.9420	0.9989	3.946	0.0002	**
Mechanical Engine	ering	% URM	Treatment	Simple	3.8590	2.0259	1.905	0.0613	+
Mechanical Engine		Any Black	Treatment	Simple	0.3462	0.0898	3.855	0.0003	**
Mechanical Engine		Count Black	Treatment	Simple	0.6458	0.1853	3.486	0.0009	**
Mechanical Engine	ering	Count URM	Treatment	Simple	0.6652	0.2998	2.219	0.0301	*
Physics		% Black	Treatment	Extended	1.6042	0.6127	2.618	0.0093	*:
Physics		Any Black	Treatment	Simple	0.1228	0.0479	2.561	0.0109	*
Physics		Count Black	Treatment	Extended	0.1820	0.0692	2.629	0.0090	**
Heterogeneity A	nalysis								
Department Rankii	ng	Any URM	Treatment × Depart-	Extended	0.0012	0.0006	1.796	0.0727	+
Department Ranki	าย	Count Black	ment Ranking Treatment × Depart-	Simple	0.0023	0.0012	1.967	0.0493	*
- ·	0		ment Ranking		0.00_0	0.00-		0.0200	
Department Rankii	ng	Count Hispanic	Treatment × Depart-	Extended	0.0027	0.0012	2.216	0.0268	*
			ment Ranking						
Department Rankii	ng	Count URM	9	Extended	0.0050	0.0018	2.809	0.0050	*
	•		ment Ranking						
Number of Seminar	's	Any Black	Treatment \times Number of	Extended	-0.0094	0.0038	-2.479	0.0133	*
			Seminars						
Number of Seminar	's	Any URM	Treatment \times Number of	Extended	-0.0079	0.0046	-1.727	0.0843	+
			Seminars						
Number of Seminar	's	Count Black	Treatment × Number of	Extended	-0.0126	0.0058	-2 196	0.0282	*
vulliber of bellilla		Count Black	Treatment × rumber of	LAUCHACA	0.0120	0.0000	2.100	0.0202	

Table 69: All Significant Results (p < 0.1) from All Analyses - Part 2 of 2

		·- ,		-				
Analysis	Outcome	Variable	Model	Coef.	SE	t-stat	p-value	Sig.
Semester Analysis								
Fall Semester	Count URM	Treatment	Simple	0.0780	0.0456	1.711	0.0873	+
Spring Semester	% Black	Treatment	Extended	0.8204	0.4401	1.864	0.0625	+

Note: Significance levels: + p<0.1; *p<0.05; ** p<0.01; *** p<0.001. SE = Clustered standard errors at department level. For moderation analyses, only significant interaction terms are shown.