Search Costs Field Experiment

2025-06-09

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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	1656
Number of unique departments	530
Total speakers across all seminars	23168
Mean speakers per seminar	13.99
SD speakers per seminar	9.95
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	8.00	11.50	1.09	1.36	56.5
Black	2.27	5.97	0.32	0.69	24.1
Hispanic	5.70	9.84	0.77	1.10	45.8
Female	16.92	16.18	2.40	2.49	76.1

Note: N=1656 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	18.0
% URM faculty	4.11	4.40
% Women faculty	20.39	7.59

Note: N = 530 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

			J 1	
Discipline	N Seminars	N Depts	Mean Speakers	SD Speakers
Chemistry	271	123	14.7	11.1
Computer Science	142	82	13.1	10.3
Mathematics	811	134	13.2	9.1
Mechanical Engineering	82	66	12.9	10.2
Physics	350	125	15.9	10.4

Table 5: Seminar Speaker Demographics by Discipline: URM

Discipline	N Seminars	Mean $\%$	SD $\%$	Mean Count	Pct. Has Any
Chemistry	271	9.38	10.58	1.34	66.1
Computer Science	142	4.86	9.01	0.61	38.0
Mathematics	811	7.58	11.22	1.02	52.3
Mechanical Engineering	82	8.44	9.16	1.15	63.4
Physics	350	9.06	13.73	1.26	64.6

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		Hispanic		Female	
Discipline	Mean $\%$	Pct. Any	Mean $\%$	Pct. Any	Mean $\%$	Pct. Any
Chemistry	4.33	40.6	4.94	48.0	23.44	86.3
Computer Science	1.46	16.9	3.40	27.5	19.21	79.6
Mathematics	1.74	19.7	5.82	44.4	14.00	70.5
Mechanical Engineering	3.34	32.9	5.10	46.3	19.30	75.6
Physics	1.98	22.3	7.08	54.9	17.16	79.7

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	$^{\mathrm{SD}}$	Mean	SD
Chemistry	123	28.5	11.9	4.81	4.48	24.42	7.15
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	66	36.1	19.1	5.56	5.44	19.56	7.63
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				Black		Hispanic	
Mean $\%$	Mean Count	Pct. Any	Mean $\%$	Pct. Any	Mean $\%$	Pct. Any	
7.57	0.58	39.0	1.77	12.2	5.78	31.4	
8.14	0.70	43.7	2.71	18.6	5.40	32.4	
Female		Total Speakers					
Mean $\%$	Mean Count	Pct. Any	Mean	SD			
16.10	1.27	61.9	7.75	5.50			
17.77	1.52	64.3	8.56	6.92			
	7.57 8.14 Mean % 16.10	Mean % Mean Count 7.57 0.58 8.14 0.70 Mean % Female Mean Count 16.10 1.27	Mean % Mean Count Pct. Any 7.57 0.58 39.0 8.14 0.70 43.7 Female Mean % Mean Count Pct. Any 16.10 1.27 61.9	Mean % Mean Count Pct. Any Mean % 7.57 0.58 39.0 1.77 8.14 0.70 43.7 2.71 Female Mean % Total \$6 Mean Mean Count Pct. Any Mean Mean Mean Mean Mean Mean Mean Mean	Mean % Mean Count Pct. Any Mean % Pct. Any 7.57 0.58 39.0 1.77 12.2 8.14 0.70 43.7 2.71 18.6 Mean % Female Mean Count Pct. Any Mean Speakers Mean SD 16.10 1.27 61.9 7.75 5.50	Mean % Mean Count Pct. Any Mean % Pct. Any Mean % 7.57 0.58 39.0 1.77 12.2 5.78 8.14 0.70 43.7 2.71 18.6 5.40 Mean % Female Mean Count Total Speakers Mean SD 16.10 1.27 61.9 7.75 5.50	

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	0.551	0.489	0.083	0.052	0.006	0.000
	(0.540)	(0.533)	(0.070)	(0.067)	(0.025)	(0.023)
Constant	8.846*** (1.589)	$\stackrel{\checkmark}{4.199}^{+'}$ $\stackrel{\checkmark}{(2.167)}$	1.286*** (0.178)	0.306 (0.298)	0.643*** (0.063)	0.286** (0.110)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,656	1,656	1,656	1,656	1,656	1,656
	0.010	0.015	0.026	0.034	0.030	0.044

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	-0.461 (0.554)	-0.427 (0.546)	0.083 (0.070)	0.052 (0.067)	-0.544 (0.525)	-0.479 (0.518)
Constant	16.810*** (1.313)	13.460^{***} (2.452)	1.286*** (0.178)	0.306 (0.298)	15.524^{***} (1.244)	13.154* [*] * (2.311)
Controls N Adjusted R^2	Simple 1,656 0.031	Extended 1,656 0.058	Simple 1,656 0.026	Extended 1,656 0.034	Simple 1,656 0.030	Extended 1,656 0.058

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	0.0829 -0.5440	(0.0670) (0.4589)
Sum of Effects	-0.4611	_

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).

3 Demographic Subgroup Analysis

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	0.553 ⁺	0.541 ⁺	0.067	0.066 ⁺	0.043 ⁺	0.045*
	(0.311)	(0.291)	(0.041)	(0.038)	(0.023)	(0.023)
Constant	2.859***	0.763	0.457***	0.123	0.292***	0.079
	(0.825)	(1.347)	(0.112)	(0.174)	(0.066)	(0.110)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,656	1,656	1,656	1,656	1,656	1,656
	0.029	0.034	0.049	0.058	0.042	0.050

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

Hispanic Speakers 3.2

Table 13: Effect on Hispanic Speakers

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanio (6)
Treatment	0.013 (0.471)	-0.046 (0.484)	0.016 (0.053)	-0.016 (0.052)	-0.011 (0.025)	-0.018 (0.025)
Constant	5.776*** (1.473)	3.220^{+} (1.954)	0.803*** (0.150)	0.147 (0.245)	0.512*** (0.065)	0.257^{*} (0.107)
Controls N Adjusted R^2	Simple 1,656 0.005	Extended 1,656 0.005	Simple 1,656 0.014	Extended 1,656 0.022	Simple 1,656 0.018	Extended 1,656 0.023

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	0.116	-0.402	-0.065	-0.131	-0.005	-0.011
	(0.833)	(0.824)	(0.129)	(0.128)	(0.022)	(0.021)
Constant	21.582*** (2.080)	13.460*** (3.946)	3.630*** (0.354)	2.248*** (0.598)	0.859^{***} (0.064)	0.670*** (0.100)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,656	1,656	1,656	1,656	1,656	1,656
	0.049	0.057	0.086	0.102	0.018	0.030

3.4 **URM** Female

Table 15: Effect on URM Female Speakers

	% URM Female	% URM Female	Count URM Female	$\begin{array}{c} {\rm Count~URM} \\ {\rm Female} \end{array}$	Any URM Female	Any URM Female
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	-0.058	-0.124	0.024	0.014	0.016	0.007
	(0.175)	(0.185)	(0.020)	(0.020)	(0.018)	(0.018)
Constant	1.910**	-0.032	0.214***	-0.046	0.182***	-0.057
	(0.611)	(0.599)	(0.063)	(0.093)	(0.052)	(0.081)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,656	1,656	1,656	1,656	1,656	1,656
Adjusted R^2	0.015	0.021	0.044	0.059	0.046	0.060

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 (6)
	(1)	(2)	(3)	(4)	(0)	(0)
Treatment	0.096	0.109	0.006	0.006	0.006	0.007
	(0.073)	(0.074)	(0.010)	(0.010)	(0.009)	(0.009)
Constant	0.589***	0.169	0.080**	0.025	0.066**	0.026
	(0.176)	(0.285)	(0.025)	(0.043)	(0.022)	(0.037)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,656	1,656	1,656	1,656	1,656	1,656
Adjusted \mathbb{R}^2	0.033	0.038	0.021	0.026	0.018	0.022

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

Black Male 3.6

Table 17: Effect on Black Male Speakers

% Black Male	% Black Male %	ale % Black Male	Count Black Male	Count Black Male	Any Black Male	Any Black Male
(1)	(2)	(3)	(4)	(5)	(6)	
0.457+	0.432^{+}	0.062+	0.061+	0.049*	0.051*	
(0.264)	(0.246)	(0.034)	(0.032)	(0.023)	(0.022)	
2.270**	0.594	0.371***	[0.094]	0.281***	0.061	
(0.725)	(1.202)	(0.097)	(0.147)	(0.065)	(0.108)	
Simple	Extended	Simple	Extended	Simple	Extended	
1,656	1,656	1,656	1,656	1,656	1,656	
0.020	0.024	0.045	0.052	0.041	0.049	
	(1) 0.457 ⁺ (0.264) 2.270** (0.725) Simple 1,656	$ \begin{array}{cccc} (1) & (2) \\ \hline 0.457^+ & 0.432^+ \\ (0.264) & (0.246) \\ 2.270^{**} & 0.594 \\ (0.725) & (1.202) \\ \hline \text{Simple} & \text{Extended} \\ 1,656 & 1,656 \\ \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 Hispanio
	Female	Female	Female	Female	Female	Female
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	-0.158	-0.240	0.010	-0.002	0.005	-0.005
Constant	(0.162) 1.297^* (0.586)	(0.176) -0.245 (0.501)	(0.014) 0.066 (0.045)	(0.013) -0.092 (0.068)	(0.012) 0.058 (0.036)	(0.012) -0.094 (0.060)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,656	1,656	1,656	1,656	1,656	1,656
	0.002	0.005	0.008	0.020	0.007	0.019

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	0.171	0.194	0.005	-0.014	-0.011	-0.017
	(0.401)	(0.411)	(0.047)	(0.046)	(0.025)	(0.025)
Constant	4.479***	3.465*	0.736***	0.249	0.508***	0.275^{*}
	(1.296)	(1.719)	(0.130)	(0.212)	(0.064)	(0.107)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,656	1,656	1,656	1,656	1,656	1,656
Adjusted \mathbb{R}^2	0.008	0.007	0.014	0.021	0.019	0.023

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=271)

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	0.201 (1.202)	-0.525 (1.172)	-0.155 (0.173)	-0.209 (0.172)	0.028 (0.052)	0.014 (0.055)
Constant	5.780* (2.678)	-1.909 (5.712)	$0.863^* \ (0.421)$	-0.725 (0.783)	0.146 (0.119)	-0.233 (0.255)
Controls N Adjusted R^2	Simple 271 -0.025	Extended 271 -0.017	Simple 271 0.109	Extended 271 0.110	Simple 271 0.097	Extended 271 0.095

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	0.408 (1.081)	0.070 (0.874)	-0.036 (0.126)	-0.039 (0.106)	0.065 (0.067)	0.030 (0.063)
Constant	2.574 (2.585)	-7.905* (3.829)	0.386 (0.248)	-1.361^* (0.555)	0.148 (0.157)	-0.776* (0.314)
Controls N Adjusted R^2	Simple 271 -0.031	Extended 271 -0.004	Simple 271 0.053	Extended 271 0.092	Simple 271 0.064	Extended 271 0.111

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	-0.140 (1.027)	-0.549 (1.059)	-0.131 (0.127)	-0.189 (0.142)	-0.083 (0.062)	-0.102 (0.062)
Constant	2.371 (1.865)	3.785 (5.014)	0.445 (0.370)	0.376 (0.554)	0.147 (0.154)	0.194 (0.298)
Controls N Adjusted R^2	Simple 271 -0.019	Extended 271 -0.020	Simple 271 0.053	Extended 271 0.073	Simple 271 0.035	Extended 271 0.049

4.0.2 Mathematics (N=811)

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	0.990	1.204	0.153	0.140	0.019	0.007	
	(0.724)	(0.832)	(0.099)	(0.111)	(0.031)	(0.031)	
Constant	6.446***	5.107	0.996***	0.258	0.546***	0.284	
	(1.399)	(4.528)	(0.153)	(0.611)	(0.057)	(0.177)	
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended	
	811	811	811	811	811	811	
	0.002	-0.001	-0.001	-0.003	-0.008	0.000	

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	0.277	0.514	0.071	0.103 ⁺	0.011	0.017
	(0.372)	(0.412)	(0.051)	(0.055)	(0.030)	(0.026)
Constant	0.440 (0.489)	$0.772^{'}$ (2.356)	0.176* (0.071)	0.333 (0.266)	0.142* [*] (0.050)	0.029 (0.149)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	811	811	811	811	811	811
	0.025	0.039	0.012	0.028	0.011	0.032

Clustered standard errors at department level in parentheses.

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	0.731 (0.654)	0.694 (0.706)	0.086 (0.079)	0.039 (0.079)	0.038 (0.033)	0.026 (0.035)
Constant	5.931*** (1.376)	4.182 (3.457)	0.802*** (0.139)	-0.112 (0.496)	0.481*** (0.065)	0.324^{+} (0.195)
Controls N Adjusted R^2	Simple 811 -0.006	Extended 811 -0.005	Simple 811 -0.003	Extended 811 0.000	Simple 811 -0.004	Extended 811 -0.004

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	-0.103 (1.281)	-0.114 (1.227)	0.164 (0.142)	0.128 (0.142)	-0.020 (0.062)	-0.015 (0.056)
Constant	14.377*** (2.280)	10.257 (13.749)	1.394*** (0.169)	1.843 (1.488)	0.534*** (0.063)	0.919 (0.592)
Controls N Adjusted R^2	Simple 350 -0.002	Extended 350 -0.011	Simple 350 -0.006	Extended 350 0.005	Simple 350 0.002	Extended 350 0.037

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

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	1.234*	1.433*	0.158*	0.175*	0.117*	0.131*
	(0.623)	(0.634)	(0.067)	(0.069)	(0.050)	(0.053)
Constant	0.637 (0.680)	$ \begin{array}{c} (0.034) \\ 1.899 \\ (4.277) \end{array} $	0.072 (0.085)	0.568 (0.566)	0.042 (0.058)	0.396 (0.401)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	350	350	350	350	350	350
	0.005	0.004	0.014	0.009	0.005	0.011

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	-1.337 (1.266)	-1.547 (1.251)	0.006 (0.132)	-0.048 (0.134)	-0.058 (0.065)	-0.064 (0.062)
Constant	13.741*** (2.312)	8.358 (12.784)	1.321*** (0.149)	1.275 (1.340)	0.528*** (0.077)	0.730 (0.602)
Controls N Adjusted R^2	Simple 350 -0.004	Extended 350 -0.013	Simple 350 -0.015	Extended 350 0.012	Simple 350 -0.001	Extended 350 0.007

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	2.294 ⁺	2.702	0.124	0.081	0.108	0.126
	(1.377)	(1.764)	(0.153)	(0.212)	(0.095)	(0.094)
Constant	8.046***	11.043	1.463***	3.887*	0.807***	2.656***
	(1.495)	(13.793)	(0.274)	(1.535)	(0.178)	(0.725)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	142	142	142	142	142	142
	0.078	0.108	0.121	0.105	0.104	0.115

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	0.332	-0.106	-0.041	-0.063	-0.015	-0.045
	(0.671)	(0.645)	(0.067)	(0.071)	(0.056)	(0.065)
Constant	3.892** (1.485)	1.140 (9.061)	0.629** (0.226)	1.695^{+} (0.975)	0.487** (0.158)	1.112 (0.745)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	142	142	142	142	142	142
Adjusted R^2	-0.018	-0.052	0.026	0.011	0.029	0.009

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	1.962	2.808	0.165	0.144	0.144	0.168 ⁺
	(1.426)	(1.699)	(0.141)	(0.184)	(0.098)	(0.090)
Constant	4.154^{*} (1.790)	9.903 (11.083)	0.834*** (0.244)	$\stackrel{>}{2}.192^{+}$ $\stackrel{>}{(1.142)}$	0.628** (0.207)	2.314** (0.752)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	142	142	142	142	142	142
	0.077	0.141	0.075	0.065	0.092	0.115

Clustered standard errors at department level in parentheses.

4.0.5 Mechanical Engineering (N=82)

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	2.911 (1.980)	2.506 (1.934)	0.657* (0.315)	0.809* (0.375)	0.037 (0.111)	0.059 (0.124)
Constant	14.817^{*} (5.933)	5.334 (10.184)	2.077* (0.927)	2.189 (2.385)	0.722** (0.267)	0.505 (0.542)
Controls N Adjusted R^2	Simple 82 0.005	Extended 82 -0.001	Simple 82 -0.009	Extended 82 0.105	Simple 82 0.016	Extended 82 0.028

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	2.910*	2.147*	0.585**	0.511*	0.291**	0.293**
	(1.106)	(0.940)	(0.206)	(0.207)	(0.100)	(0.102)
Constant	7.825** (2.564)	9.327^{+} (5.491)	$\stackrel{\circ}{0.777}^{**}$ (0.229)	0.480 (1.987)	$\stackrel{\circ}{0.657}^{**}$ (0.197)	0.941* (0.470)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	82	82	82	82	82	82
	0.070	0.095	0.067	0.121	0.070	0.137

Clustered standard errors at department level in parentheses.

Table 34: Mechanical Engineering: Effect on Hispanic Speaker Representation

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	0.001	0.359	0.072	0.298	-0.050	0.004
	(1.872)	(1.898)	(0.227)	(0.248)	(0.122)	(0.132)
Constant	6.992	-3.994	1.300	1.709	0.495^{+}	0.086
	(4.310)	(10.321)	(0.839)	(1.473)	(0.274)	(0.613)
Controls N Adjusted R^2	Simple 82 -0.072	Extended 82 -0.088	Simple 82 -0.027	Extended 82 0.036	Simple 82 -0.018	Extended 82 -0.005

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: 1.404 p-value: 0.2302 Degrees of freedom: 4

We cannot reject the null hypothesis that treatment effects are equal across disciplines. The variation in treatment effects across fields may be due to random chance.

F-test for Treatment \times Discipline Interactions (URM Speakers): F-statistic: 0.522 p-value: 0.7197 Degrees of freedom: 4

Individual Interaction Effects (Black Speakers): Estimate Std. Error t value Pr(>|t|) treatment:disc_mathematics -0.0655 0.8589 -0.0763 0.9392 treatment:disc_physics 0.9641 0.9726 0.9913 0.3217 treatment:disc_computer_science -0.1349 1.2487 -0.1081 0.9140 treatment:disc_mechanical_engineering 2.7427 1.4976 1.8315 0.0672

Semester-Specific Analysis **5**

5.1 Fall Semester

Table 35: Fall: Effect on URM Speakers

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	1.016	0.908	0.094*	0.063	0.038	0.025
	(0.703)	(0.699)	(0.047)	(0.046)	(0.025)	(0.026)
Constant	6.031*	-2.836	0.525***	-0.301	0.368***	-0.034
	(2.452)	(3.146)	(0.146)	(0.219)	(0.071)	(0.112)
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	0.026	0.041	0.031	0.040

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

Table 36: Fall: Effect on Black Speakers

	% Black (1)	% Black (2)	Count Black (3)	Count Black (4)	Any Black (5)	Any Black (6)
Treatment	0.407	0.379	0.048*	0.045*	0.035*	0.034 ⁺
	(0.335)	(0.335)	(0.021)	(0.021)	(0.017)	(0.018)
Constant	2.661**	-1.611	0.207***	-0.058	0.162***	-0.043
	(0.978)	(1.408)	(0.060)	(0.095)	(0.047)	(0.081)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,448	1,448	1,448	1,448	1,448	1,448
Adjusted R^2	0.024	0.037	0.038	0.048	0.033	0.041

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

Table 37: Fall: Effect on Hispanic Speakers

	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanio (6)
Treatment	0.592 (0.649)	0.497 (0.672)	0.045 (0.041)	0.015 (0.040)	0.023 (0.025)	0.008 (0.026)
Constant	3.227 (2.372)	-1.469 (3.050)	0.306* (0.134)	-0.266 (0.197)	0.234** (0.074)	-0.065 (0.113)
Controls N Adjusted R^2	Simple 1,448 0.012	Extended 1,448 0.011	Simple 1,448 0.021	Extended 1,448 0.031	Simple 1,448 0.023	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 5.2

Table 38: Spring: Effect on URM Speakers

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.310	0.238	-0.018	-0.017	-0.026	-0.026
	(0.769)	(0.783)	(0.058)	(0.058)	(0.027)	(0.027)
Constant	9.432***	8.842**	1.148***	0.985***	0.611***	0.488***
	(1.939)	(3.301)	(0.166)	(0.268)	(0.064)	(0.113)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,397	1,397	1,397	1,397	1,397	1,397
	0.001	0.001	0.020	0.017	0.026	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	0.663	0.655	0.021	0.025	0.014	0.017
	(0.462)	(0.439)	(0.036)	(0.035)	(0.023)	(0.022)
Constant	2.382* (1.067)	1.354 (1.768)	0.369*** (0.097)	0.302^{+} (0.156)	0.257*** (0.064)	0.184^{+} (0.106)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,397	1,397	1,397	1,397	1,397	1,397
	0.010	0.010	0.031	0.034	0.023	0.024

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 Constant	-0.332	-0.401	-0.038	-0.041	-0.034	-0.035
	(0.649)	(0.675)	(0.043)	(0.043)	(0.026)	(0.026)
	6.832***	7.270*	0.762***	0.661**	0.490***	0.382***
	(1.719)	(3.036)	(0.131)	(0.213)	(0.067)	(0.109)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,397	1,397	1,397	1,397	1,397	1,397
	-0.005	-0.004	0.010	0.012	0.021	0.023

Heterogeneity Analysis 6

6.1 Moderation by Department Ranking

Table 41: Effect by Department Rank

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.506	0.480	0.084	0.045	0.009	-0.001
Constant	(0.531) $10.010***$ (1.619)	(0.529) $5.767**$ (2.032)	(0.069) 1.218*** (0.188)	(0.067) 0.344 (0.274)	(0.024) 0.578*** (0.069)	(0.023) 0.267^* (0.104)
Dept Ranking (centered)	0.016	0.029^{*}	-0.003*	-0.001	-0.001**	-0.001
Treatment × Dept Ranking (centered)	(0.013) 0.006 (0.017)	(0.013) 0.006 (0.017)	(0.001) 0.004^* (0.002)	(0.002) $0.005*$ (0.002)	(0.001) 0.001 (0.001)	(0.001) 0.001 (0.001)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,656	1,656	1,656	1,656	1,656	1,656
Adjusted R^2	0.011	0.014	0.029	0.038	0.034	0.045

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

Moderation by Total Faculty Size 6.2

Table 42: Effect by Faculty Size

	% URM (1)	% URM (2)	Count URM (3)	Count URM (4)	Any URM (5)	Any URM (6)
Treatment	0.713	0.495	0.057	0.048	-0.003	0.000
	(0.555)	(0.530)	(0.072)	(0.067)	(0.025)	(0.023)
Constant	8.860***	3.392	1.271***	0.357	0.625***	0.283**
	(1.546)	(2.203)	(0.187)	(0.314)	(0.064)	(0.108)
Total Faculty (centered)	-0.030	-0.022	0.004	0.003	0.001	-0.000
	(0.026)	(0.025)	(0.003)	(0.003)	(0.001)	(0.001)
${\it Treatment} \times {\it Total Faculty (centered)}$	0.017	0.005	-0.002	-0.003	0.000	0.000
	(0.030)	(0.030)	(0.004)	(0.004)	(0.001)	(0.001)
Controls N Adjusted \mathbb{R}^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,656	1,656	1,656	1,656	1,656	1,656
	0.009	0.014	0.027	0.034	0.031	0.044

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 Peer Departments 6.3

Table 43: Effect by Peer URM Faculty

	% URM	% URM	Count URM	Count URM	Any URM	Any URM
	(1)	(2)	(3)	(4)	(5)	(6)
Treatment	0.555	0.457	0.088	0.050	0.008	-0.000
	(0.534)	(0.533)	(0.068)	(0.067)	(0.024)	(0.023)
Constant	8.679***	7.735***	1.238***	0.881***	0.622***	0.485***
	(1.518)	(1.806)	(0.174)	(0.248)	(0.060)	(0.092)
Peer URM Faculty (centered)	0.076	0.148**	0.018**	0.021**	0.007**	0.007**
,	(0.054)	(0.056)	(0.006)	(0.007)	(0.002)	(0.002)
Treatment × Peer URM Faculty (centered)	-0.078	-0.069	-0.004	-0.005	-0.001	-0.002
,	(0.075)	(0.074)	(0.008)	(0.008)	(0.003)	(0.003)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,656	1,656	1,656	1,656	1,656	1,656
Adjusted \mathbb{R}^2	0.010	0.015	0.032	0.034	0.039	0.044

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

7 Summary of All Significant Results

Table 44: All Significant Results (p < 0.1) from All Analyses (Excluding Constant Term)

Analysis	Outcome	Variable	Model	Coef.	$_{ m SE}$	t-stat	p-value	Sig.
Discipline Analysis								
Computer Science 9	% URM	Treatment	Simple	2.2940	1.3771	1.666	0.0983	+
Computer Science	Any Hispanic	Treatment	Extended	0.1681	0.0900	1.868	0.0643	+
Mathematics	Count Black	Treatment	Extended	0.1025	0.0554	1.851	0.0646	+
Mechanical Engineering 9	% Black	Treatment	Simple	2.9095	1.1062	2.630	0.0106	*
Mechanical Engineering A	Any Black	Treatment	Simple	0.2906	0.1002	2.902	0.0051	
Mechanical Engineering (Count Black	Treatment	Simple	0.5852	0.2060	2.841	0.0060	**
Mechanical Engineering (Count URM	Treatment	Extended	0.8090	0.3750	2.157	0.0352	*
Physics 9	% Black	Treatment	Extended	1.4331	0.6338	2.261	0.0244	*
Physics A	Any Black	Treatment	Extended	0.1306	0.0529	2.469	0.0140	*
Physics	Count Black	Treatment	Extended	0.1753	0.0691	2.538	0.0116	*
Identity Analysis								
Demographic Subgroup %	% Black	Treatment	Extended	0.5413	0.2910	1.860	0.0631	+
Demographic Subgroup 9	% Black Male	Treatment	Extended	0.4320	0.2461	1.755	0.0794	+
Demographic Subgroup	Any Black	Treatment	Extended	0.0453	0.0227	1.993	0.0464	*
Demographic Subgroup	Any Black Male	Treatment	Extended	0.0507	0.0224	2.258	0.0241	*
Demographic Subgroup (Count Black	Treatment	Extended	0.0657	0.0381	1.723	0.0850	+
Demographic Subgroup (Count Black Male	Treatment	Extended	0.0613	0.0324	1.889	0.0590	+
Moderation Analysis								
Department Rank (Count URM	Treatment × Dept Ranking	Extended	0.0046	0.0019	2.394	0.0168	*
Semester Analysis								
Fall Semester A	Any Black	Treatment	Simple	0.0352	0.0172	2.051	0.0405	*
Fall Semester (Count Black	Treatment	Simple	0.0479	0.0213	2.252	0.0245	*
Fall Semester (Count URM	Treatment	Simple	0.0943	0.0472	1.998	0.0459	*

Note: Significance levels: + p<0.1; * p<0.05; ** p<0.01; *** p<0.001. SE = Clustered standard errors at department level. Constant terms are excluded from this summary.