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	1654
Number of unique departments	528
Total speakers across all seminars	23069
Mean speakers per seminar	13.95
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	7.44	11.09	1.00	1.28	54.2
Black	2.23	5.96	0.32	0.68	23.3
Hispanic	5.18	9.49	0.68	1.01	42.9
Female	16.99	16.25	2.39	2.48	75.9

Note: N=1654 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

			<i>y</i> 1	
Discipline	N Seminars	N Depts	Mean Speakers	SD Speakers
Chemistry	270	122	14.5	10.9
Computer Science	142	82	13.1	10.3
Mathematics	811	134	13.2	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	8.88	10.52	1.27	64.1
Computer Science	142	4.48	8.21	0.54	36.6
Mathematics	811	7.11	10.72	0.94	50.4
Mechanical Engineering	81	8.20	9.17	1.12	61.7
Physics	350	8.11	13.33	1.12	60.6

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	4.23	39.6	4.53	45.2	23.72	86.7
Computer Science	1.55	17.6	2.93	24.6	19.20	78.2
Mathematics	1.80	19.4	5.31	41.2	14.00	70.3
Mechanical Engineering	2.95	28.4	5.25	46.9	19.83	76.5
Physics	1.82	20.9	6.29	51.4	17.14	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	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				Black		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 (1385)	7.56	0.64	41.9	2.69	18.4	4.84	29.9	
	Female				Total Speakers			
Semester	Mean $\%$	Mean Count	Pct. Any	Mean	SD			
Fall	16.16	1.27	62.0	7.75	5.50	-		
Spring	17.75	1.52	64.5	8.56	6.87			
Spring	17.75	1.52	64.5	8.56	6.87			

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	0.664	0.633	0.087	0.059	0.017	0.008
	(0.520)	(0.517)	(0.066)	(0.065)	(0.025)	(0.024)
Constant	8.446*** (1.633)	$\stackrel{\checkmark}{4.001}^{+'}$ (2.098)	1.163*** (0.172)	0.248 (0.285)	0.589*** (0.072)	0.219^{+} (0.117)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,654	1,654	1,654	1,654	1,654	1,654
	0.010	0.015	0.029	0.037	0.025	0.039

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	-0.488	-0.483	0.087	0.059	-0.574	-0.542
	(0.553)	(0.545)	(0.066)	(0.065)	(0.526)	(0.519)
Constant	$1\hat{6}.744^{***}$ (1.311)	13.098*** (2.440)	1.163*** (0.172)	0.248 (0.285)	15.580**** (1.243)	12.850*** (2.301)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,654	1,654	1,654	1,654	1,654	1,654
Adjusted R^2	0.033	0.057	0.029	0.037	0.032	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	0.0866 -0.5742	(0.0631) (0.4594)
Sum of Effects	-0.4876	_

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	0.679*	0.664*	0.083*	0.081*	0.055*	0.054*
	(0.309)	(0.294)	(0.039)	(0.038)	(0.023)	(0.022)
Constant	2.707***	0.933	0.430***	0.103	0.289***	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
	1,654	1,654	1,654	1,654	1,654	1,654
	0.026	0.031	0.048	0.057	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	-0.001	-0.025	0.004	-0.024	-0.020	-0.032
	(0.457)	(0.471)	(0.050)	(0.049)	(0.025)	(0.025)
Constant	5.526***	2.851	0.707***	0.109	0.443***	0.164
	(1.524)	(1.905)	(0.149)	(0.230)	(0.076)	(0.111)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,654	1,654	1,654	1,654	1,654	1,654
	0.006	0.006	0.015	0.022	0.018	0.024

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	0.354 (0.840)	-0.117 (0.833)	-0.061 (0.129)	-0.130 (0.128)	0.001 (0.022)	-0.003 (0.021)
Constant	21.904*** (2.114)	13.802*** (4.028)	3.602*** (0.356)	2.169*** (0.599)	0.870*** (0.063)	0.682*** (0.099)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,654	1,654	1,654	1,654	1,654	1,654
Adjusted R^2	0.051	0.058	0.085	0.101	0.017	0.028

URM Female 3.4

Table 15: Effect on URM Female Speakers

	% URM Female	% URM Female	Count URM Female	Count URM Female	Any URM Female	Any URM Female
	(1)	(2) (3)	(3)	(4)	(5)	(6)
Treatment	0.011	-0.047	0.022	0.014	0.015	0.008
	(0.171)	(0.182)	(0.019)	(0.019)	(0.016)	(0.017)
Constant	1.815**	-0.072	0.207***	-0.002	0.177***	-0.013
	(0.604)	(0.582)	(0.060)	(0.091)	(0.049)	(0.078)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,654	1,654	1,654	1,654	1,654	1,654
Adjusted \mathbb{R}^2	0.014	0.018	0.041	0.051	0.041	0.050

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)
Treatment	0.141*	0.150*	0.012	0.013	0.014+	0.015+
	(0.069)	(0.072)	(0.009)	(0.009)	(0.008)	(0.008)
Constant	0.493**	0.063	0.056*	0.003	0.044*	0.003
	(0.153)	(0.272)	(0.024)	(0.042)	(0.020)	(0.036)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,654	1,654	1,654	1,654	1,654	1,654
Adjusted \mathbb{R}^2	0.032	0.036	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		0 0 0000	Count Black Male	Any Black Male	Any Black Male
(1)	$(1) \qquad \qquad (2) \qquad \qquad (3)$	(3)	(4)	(5)	(6)
0.538*	0.514*	0.071*	0.070*	0.058*	0.056*
(0.264)	(0.249)	(0.034)	(0.033)	(0.022)	(0.022)
2.215**	0.870	0.365***	0.097	0.279***	$0.034^{'}$
(0.708)	(1.164)	(0.092)	(0.143)	(0.060)	(0.103)
Simple	Extended	Simple	Extended	Simple	Extended
1,654	1,654	1,654	1,654	1,654	1,654
0.018	0.022	0.040	0.047	0.035	0.044
	(1) 0.538* (0.264) 2.215** (0.708) Simple 1,654	$ \begin{array}{cccc} (1) & & (2) \\ 0.538^* & & 0.514^* \\ (0.264) & & (0.249) \\ 2.215^{**} & & 0.870 \\ (0.708) & & (1.164) \\ \\ \text{Simple} & & \text{Extended} \\ 1,654 & & 1,654 \\ \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 Female (1)	% Hispanic Female (2)	Count Hispanic Female (3)	Count Hispanic Female (4)	Any Hispanic Female (5)	Any Hispanie Female (6)
Treatment	-0.134	-0.204	0.007	0.000	0.004	-0.002
Constant	(0.160) 1.298*	(0.174) -0.178	(0.013) 0.062	(0.013) -0.063	(0.012) 0.056	(0.012) -0.065
Controls	(0.587) Simple	(0.485) Extended	(0.044) Simple	(0.066) Extended	(0.034) Simple	(0.057) Extended
N Adjusted \mathbb{R}^2	1,654 0.002	$1,654 \\ 0.004$	$1,654 \\ 0.010$	$1,654 \\ 0.018$	1,654 0.008	$1,654 \\ 0.016$

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	0.133	0.179	-0.004	-0.024	-0.021	-0.032
	(0.389)	(0.400)	(0.045)	(0.044)	(0.025)	(0.025)
Constant	4.228**	3.029^{+}	0.639***	0.169	0.439***	0.178
	(1.346)	(1.688)	(0.130)	(0.200)	(0.076)	(0.110)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,654	1,654	1,654	1,654	1,654	1,654
Adjusted R^2	0.008	0.007	0.013	0.020	0.019	0.025

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	0.469 (1.173)	-0.413 (1.162)	-0.105 (0.165)	-0.185 (0.165)	0.023 (0.052)	-0.006 (0.057)
Constant	6.332^{*} (2.674)	-1.871 (5.820)	0.930* (0.411)	-0.747 (0.779)	0.233^{+} (0.133)	-0.288 (0.266)
Controls N Adjusted R^2	Simple 270 -0.024	Extended 270 -0.019	Simple 270 0.100	Extended 270 0.108	Simple 270 0.106	Extended 270 0.115

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 (1.057)	0.399 (0.848)	0.021 (0.121)	0.024 (0.100)	0.090 (0.065)	0.062 (0.059)
Constant	$ \begin{array}{c} (1.057) \\ 2.261 \\ (2.566) \end{array} $	-8.839* (3.921)	$ \begin{array}{c} (0.121) \\ 0.314 \\ (0.246) \end{array} $	-1.603** (0.535)	0.120 (0.155)	-0.963** (0.295)
Controls N Adjusted R^2	Simple 270 -0.033	Extended 270 -0.013	Simple 270 0.045	Extended 270 0.084	Simple 270 0.045	Extended 270 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 Hispanic (6)
Treatment	-0.205 (0.976)	-0.771 (0.983)	-0.139 (0.117)	-0.230 ⁺ (0.125)	-0.105 (0.064)	-0.153* (0.063)
Constant	3.238^{+} (1.788)	4.762 (4.913)	0.584 (0.361)	0.596 (0.548)	0.258 (0.162)	0.261 (0.304)
Controls N Adjusted R^2	Simple 270 -0.024	Extended 270 -0.021	Simple 270 0.046	Extended 270 0.077	Simple 270 0.035	Extended 270 0.062

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

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	0.944	1.212	0.154	0.151	0.022	0.012
	(0.719)	(0.793)	(0.094)	(0.103)	(0.034)	(0.033)
Constant	6.229***	6.083	0.872***	0.210	0.503***	0.215
	(1.421)	(4.161)	(0.145)	(0.546)	(0.068)	(0.193)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	811	811	811	811	811	811
Adjusted R^2	0.001	-0.001	0.000	-0.002	-0.009	-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	0.236	0.526	0.077	0.113*	0.019	0.028
	(0.393)	(0.430)	(0.049)	(0.054)	(0.029)	(0.027)
Constant	0.896^{+} (0.533)	1.729 (2.406)	0.195** (0.072)	0.334 (0.262)	0.170*** (0.051)	0.053 (0.151)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	811	811	811	811	811	811
	0.012	0.020	0.010	0.023	0.005	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	0.727	0.690	0.081	0.039	0.028	0.010
	(0.640)	(0.682)	(0.074)	(0.072)	(0.034)	(0.036)
Constant	5.257*** (1.389)	4.202 (3.374)	0.658*** (0.133)	-0.161 (0.430)	0.398*** (0.079)	0.182 (0.198)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	811	811	811	811	811	811
	-0.004	-0.002	-0.001	0.003	-0.001	-0.001

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	0.040 (1.192)	0.104 (1.142)	0.148 (0.133)	0.116 (0.132)	-0.012 (0.060)	-0.009 (0.052)
Constant	13.433*** (2.389)	9.484 (13.067)	1.248*** (0.170)	1.333 (1.516)	0.407*** (0.074)	0.829 (0.562)
Controls N Adjusted R^2	Simple 350 0.003	Extended 350 -0.005	Simple 350 0.004	Extended 350 0.012	Simple 350 0.001	Extended 350 0.029

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)	0.001 (0.052)	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	-1.439 (1.170)	-1.500 (1.160)	-0.026 (0.115)	-0.066 (0.119)	-0.074 (0.064)	-0.075 (0.060)
Constant	13.649*** (2.389)	9.574 (11.919)	1.217*** (0.153)	1.104 (1.278)	0.435*** (0.081)	0.738 (0.581)
Controls N Adjusted R^2	Simple 350 0.001	Extended 350 -0.010	Simple 350 -0.007	Extended 350 0.014	Simple 350 -0.002	Extended 350 0.010

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 N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	142	142	142	142	142	142
	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 N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	81	81	81	81	81	81
	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

	% 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 Adjusted R^2	Simple 81 -0.053	Extended 81 -0.041	Simple 81 0.025	Extended 81 0.067	Simple 81 -0.015	Extended 81 0.001

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 < 0.01; p < 0.001

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

4.1 Testing for Significant Moderation Across Disciplines

F-test for Treatment × Discipline Interactions (Black Speakers): F-statistic: 3.721 p-value: 0.0051 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 \times Discipline Interactions (URM Speakers): F-statistic: 0.714 p-value: 0.5824 Degrees of freedom: 4

Individual Interaction Effects (Black Speakers): Estimate Std. Error t value Pr(>|t|) treatment:disc_mathematics -0.0625 0.0604 -1.0337 0.3014 treatment:disc_physics 0.0231 0.0684 0.3383 0.7352 treatment:disc_computer_science -0.1077 0.0878 -1.2269 0.2201 treatment:disc_mechanical_engineering 0.2800 0.1058 2.6475 0.0082

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

 $bin_7_{11} 2.18899 1.68911 1.296 0.19520$

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	$\hat{6}.357^{**}$ (2.449)	-2.483 (3.059)	0.538*** (0.145)	-0.283 (0.212)	0.366*** (0.070)	-0.058 (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 (0.635)	0.371 (0.657)	0.024 (0.038)	-0.003 (0.038)	0.009 (0.024)	-0.006 (0.025)
Constant	3.351 (2.358)	-1.075 (2.931)	$0.301^* \ (0.134)$	-0.231 (0.188)	0.236** (0.073)	-0.066 (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)
0.468 (0.737)	0.520 (0.757)	0.007 (0.055)	0.009 (0.056)	-0.013 (0.028)	-0.013 (0.028)
8.564*** (1.839)	8.921** (3.097)	0.985*** (0.144)	0.897*** (0.251)	0.539*** (0.073)	0.420*** (0.122)
Simple	Extended	Simple	Extended	Simple	Extended
,	,	,	,	,	1,385 0.023
	(1) 0.468 (0.737) 8.564*** (1.839)	(1) (2) 0.468	(1) (2) (3) 0.468 0.520 0.007 (0.737) (0.757) (0.055) 8.564*** 8.921** 0.985*** (1.839) (3.097) (0.144) Simple Extended Simple 1,385 1,385 1,385	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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	0.831 ⁺ (0.464)	0.844 ⁺ (0.446)	0.036 (0.035)	0.039 (0.034)	0.026 (0.023)	0.028 (0.023)
Constant	1.814^{+} (1.018)	1.523 (1.731)	0.322*** (0.088)	0.305^* (0.149)	0.235*** (0.059)	0.176^{+} (0.102)
Controls N Adjusted R^2	Simple 1,385 0.010	Extended 1,385 0.009	Simple 1,385 0.031	Extended 1,385 0.033	Simple 1,385 0.022	Extended 1,385 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

			0			
	% Hispanic (1)	% Hispanic (2)	Count Hispanic (3)	Count Hispanic (4)	Any Hispanic (5)	Any Hispanic (6)
Treatment	-0.342	-0.310	-0.028	-0.030	-0.034	-0.036
	(0.625)	(0.648)	(0.040)	(0.040)	(0.026)	(0.027)
Constant	6.528***	7.174*	0.645***	0.571**	0.415***	0.337**
	(1.662)	(2.817)	(0.115)	(0.193)	(0.073)	(0.108)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,385	1,385	1,385	1,385	1,385	1,385
Adjusted R^2	-0.007	-0.007	0.008	0.010	0.013	0.015

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	0.623	0.622	0.087	0.051	0.018	0.007
	(0.513)	(0.513)	(0.065)	(0.064)	(0.025)	(0.024)
Constant	9.549*** (1.639)	5.515** (1.956)	1.117*** (0.175)	0.297 (0.256)	0.529***	0.203^{+} (0.110)
Dept Ranking (centered)	0.014	0.028*	-0.003**	-0.001	-0.002**	-0.001
	(0.013)	(0.013)	(0.001)	(0.001)	(0.001)	(0.001)
${\it Treatment} \times {\it Dept Ranking (centered)}$	0.008 (0.016)	0.007 (0.016)	0.005^{**} (0.002)	0.005^{**} (0.002)	0.001 (0.001)	0.001^{+} (0.001)
Controls N Adjusted R^2	Simple	Extended	Simple	Extended	Simple	Extended
	1,654	1,654	1,654	1,654	1,654	1,654
	0.011	0.014	0.033	0.042	0.029	0.040

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	0.834	0.650	0.063	0.055	0.008	0.009
	(0.531)	(0.513)	(0.069)	(0.065)	(0.025)	(0.024)
Constant	8.374*** (1.593)	3.142 (2.097)	1.154*** (0.179)	0.295 (0.294)	0.567*** (0.070)	0.213^{+} (0.114)
Total Faculty (centered)	-0.035	-0.028	0.004	0.003	0.001	-0.000
	(0.026)	(0.026)	(0.003)	(0.003)	(0.001)	(0.001)
${\it Treatment} \times {\it Total Faculty (centered)}$	$\stackrel{\circ}{0.025}$ (0.029)	0.013 (0.029)	-0.002 (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
	1,654	1,654	1,654	1,654	1,654	1,654
	0.010	0.014	0.029	0.037	0.026	0.038

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)	(1) (2)	(3)	(4)	(5)	(6)
Treatment	0.670	0.611	0.091	0.056	0.018	0.008
	(0.516)	(0.518)	(0.065)	(0.064)	(0.025)	(0.024)
Constant	8.283***	7.695***	1.116***	0.815***	0.569***	0.419***
	(1.575)	(1.789)	(0.167)	(0.234)	(0.068)	(0.100)
Peer URM Faculty (centered)	0.069	0.139*	0.017**	0.021***	0.007**	0.007**
,	(0.053)	(0.054)	(0.005)	(0.006)	(0.002)	(0.002)
Treatment × Peer URM Faculty (centered)	-0.057	-0.047	-0.005	-0.006	-0.001	-0.001
,	(0.071)	(0.071)	(0.008)	(0.008)	(0.003)	(0.003)
Controls	Simple	Extended	Simple	Extended	Simple	Extended
N	1,654	1,654	1,654	1,654	1,654	1,654
Adjusted R^2	0.010	0.014	0.035	0.037	0.034	0.038

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

- 6.4 Exploratory Analysis: Seniority Moderation
- 6.4.1 Analysis 1: Does speaker seniority moderate the treatment effect?

7 Exploratory Analysis: Seniority Moderation

7.1 Distribution of Years Since PhD

Seniority Data Coverage:

• Total seminars with seniority data: 1624 (98.2% of total)

• Number of departments: 522

• Mean of seminar-level mean years since PhD: 15.7 (SD = 7.5)

• Median of seminar-level mean years since PhD: 15.1

• Range of seminar means: 1.0 to 59.0 years

• IQR of seminar means: 10.5 to 20.0 years

7.2 Continuous Moderation Analysis

We test whether the average seniority of speakers in a seminar moderates the treatment effect on Black speaker representation.

Note: Seniority is measured as the mean years since PhD for speakers in each seminar.

7.2.1 Outcome: Percentage Black Speakers

Table 44: Seniority Moderation Analysis: Percentage Black Speakers

	(1) Main Effects	(2) Interaction	(3) With Controls
Treatment	0.8131* (0.3357)	0.8330* (0.3440)	0.9043** (0.3280)
Years Since PhD (centered)	-0.0161	-0.0018	-0.0017
Treatment \times Years Since PhD	(0.0188)	(0.0234) -0.0311	(0.0233) -0.0368
		(0.0385)	(0.0385)
Observations	1624	1624	1624
R-squared	0.005	0.005	0.017
Controls	No	No	Yes

Note: Clustered standard errors at department level in parentheses. Years since PhD is the mean years since PhD for speakers in each seminar, centered at the median. Controls include department ranking, total faculty, and fraction URM faculty. Significance: + p < 0.01; ** p < 0.05; ** p < 0.01; *** p < 0.001.

7.2.2 Outcome: Any Black Speakers

Table 45: Seniority Moderation Analysis: Any Black Speakers

	(1) Main Effects	(2) Interaction	(3) With Controls
Treatment	0.0632** (0.0239)	0.0611* (0.0240)	0.0689** (0.0236)
Years Since PhD (centered)	0.0003	-0.0012	-0.0012
Treatment \times Years Since PhD	(0.0013)	(0.0016) 0.0032	(0.0016) 0.0029
		(0.0027)	(0.0026)
Observations	1624	1624	1624
R-squared	0.006	0.006	0.014
Controls	No	No	Yes

Note: Clustered standard errors at department level in parentheses. Years since PhD is the mean years since PhD for speakers in each seminar, centered at the median. Controls include department ranking, total faculty, and fraction URM faculty. Significance: + p < 0.1; * p < 0.05; ** p < 0.01; *** p < 0.001.

7.3 Subgroup Analysis: Seminars with Senior vs Junior Speakers

Median Split Groups:

- Seminars with junior speakers (n=812): Mean = 10.0 years, Range = 1.0-15.1 years
- Seminars with senior speakers (n=812): Mean = 21.4 years, Range = 15.1-59.0 years

7.3.1 Outcome: Percentage Black Speakers

Table 46: Subgroup Analysis by Seniority: Percentage Black Speakers

	Seminars w	vith Junior Speakers	Seminars with Senior Speakers		
	(1)	(2)	(3)	(4)	
	Simple	With Controls	Simple	With Controls	
Treatment	1.0238*	1.1521*	0.5718	0.6162	
	(0.4826)	(0.4819)	(0.4160)	(0.4001)	
Observations	812	812	812	812	
R-squared	0.006	0.024	0.003	0.010	
Controls	No	Yes	No	Yes	

Note: Clustered standard errors at department level in parentheses. Junior/Senior split at median of seminar-level mean years since PhD. Controls include department ranking, total faculty, and fraction URM faculty. Significance: + p<0.1; * p<0.05; ** p<0.01; *** p<0.001.

Test for Difference Between Groups:

Difference in treatment effect (Senior - Junior): -0.4520 (SE = 0.6026), p = 0.4534

7.3.2 Outcome: Any Black Speakers

Table 47: Subgroup Analysis by Seniority: Any Black Speakers

	Seminars v	vith Junior Speakers	Seminars with Senior Speakers			
	(1)	(2)	(3)	(4)		
	Simple	With Controls	Simple	With Controls		
Treatment	0.0324 (0.0305)	0.0429 (0.0307)	0.0910** (0.0340)	0.0938** (0.0340)		
Observations R-squared Controls	812 0.002 No	812 0.007 Yes	812 0.011 No	812 0.020 Yes		

Note: Clustered standard errors at department level in parentheses. Junior/Senior split at median of seminar-level mean years since PhD. Controls include department ranking, total faculty, and fraction URM faculty. Significance: + p < 0.1; * p < 0.05; ** p < 0.01; *** p < 0.001.

Test for Difference Between Groups:

Difference in treatment effect (Senior - Junior): 0.0586 (SE = 0.0437), p = 0.1804

8 Summary of All Significant Results

Table 48: All Significant Results (p < 0.1) from All Analyses (Excluding Constant Term)

	1,2	,		`				
Analysis	Outcome	Variable	Model	Coef.	SE	t-stat	p-value	Sig.
Discipline Analysis								
Chemistry	Any Hispanic	Treatment	Extended	-0.1528	0.0628	-2.433	0.0157	*
Chemistry	Count Hispanic	Treatment	Extended	-0.2296	0.1246	-1.842	0.0666	+
Computer Science	Any Hispanic	Treatment	Extended	0.1556	0.0892	1.745	0.0836	+
Mathematics	Count Black	Treatment	Extended	0.1125	0.0541	2.079	0.0379	*
Mechanical Engineering	% Black	Treatment	Simple	3.9420	0.9989	3.946	0.0002	***
Mechanical Engineering	% URM	Treatment	Simple	3.8590	2.0259	1.905	0.0613	+
Mechanical Engineering	Any Black	Treatment	Simple	0.3462	0.0898	3.855	0.0003	***
Mechanical Engineering	Count Black	Treatment	Simple	0.6458	0.1853	3.486	0.0009	***
Mechanical Engineering	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	**
Identity Analysis								
Demographic Subgroup	% Black	Treatment	Extended	0.6640	0.2941	2.258	0.0241	*
Demographic Subgroup	% Black Female	Treatment	Extended	0.1503	0.0719	2.091	0.0367	
Demographic Subgroup	% Black Male	Treatment	Extended	0.5136	0.2486	2.066	0.0390	*
Demographic Subgroup	Any Black	Treatment	Simple	0.0547	0.0227	2.412	0.0160	*
Demographic Subgroup	Any Black Female	Treatment	Extended	0.0149	0.0081	1.839	0.0662	+
Demographic Subgroup	Any Black Male	Treatment	Simple	0.0578	0.0225	2.576	0.0101	*
Demographic Subgroup	Count Black	Treatment	Extended	0.0812	0.0376	2.157	0.0311	*
Demographic Subgroup	Count Black Male	Treatment	Extended	0.0696	0.0326	2.133	0.0331	*
Moderation Analysis								
Department Rank	Any URM	Treatment × Dept Ranking	Extended	0.0012	0.0006	1.857	0.0634	+
Department Rank	Count URM	Treatment × Dept Ranking	Extended	0.0054	0.0018	2.966	0.0031	**
Semester Analysis								
Fall Semester	Any Black	Treatment	Simple	0.0434	0.0167	2.603	0.0093	**
Fall Semester	Count Black	Treatment	Simple	0.0531	0.0209	2.541	0.0112	
Fall Semester	Count URM	Treatment	Simple	0.0780	0.0456	1.711	0.0873	+
Spring Semester	% Black	Treatment	Extended	0.8443	0.4464	1.891	0.0588	

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.