

Class differences in social networks: Evidence from a referral experiment

1-hour presentation

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Motivation



- Understand persistent class differences in labor the market, like the underrepresentation of Low-SES researchers in elite academic institutions [Stansbury and Rodriguez, 2024]
- Focus on class biases in referrals

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Referrals and Social Networks

- Most jobs are found through referrals [Topa, 2011]
- Referrals depend on social networks, which exhibit homophily [McPherson et al., 2001]
- Referrers tend to refer their strong ties, limiting diversity and reinforcing existing inequalities [Kramarz et al., 2014; Gee et al., 2017]
- *Are there social class biases in referrals?*
- *If so, what are the potential drivers of these biases?*

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- Universidad Autónoma de Bucaramanga (UNAB)
- Approx. 6000 students across all social classes
- Administrative data including SES, age, program, GPA, classes attended, year of entry, and the entry exam scores



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Design


- Ask students to refer someone they have taken at least one class with
- Pay according to the student's math and verbal scores in the national entry exam
- Incentivize better referrals by increasing reward as referral score goes higher
- Treatments: Baseline vs. Bonus

Your recommendation

We are interested in your recommendation of the person you consider best to solve similar problems to those in the **Math test**.

- * Only someone with whom you have taken at least one class...
- * We will not contact your recommendation...

Please write the name of your recommendation:

John
John Lennon (Music - 2018) 
John Stuart Mill (Law - 2020)

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Procedures

- Recruited participants by emailing 4500 students (>1 st year)
- 30 minute online experiment in Qualtrics
- Average payment of 8 USD
- 840 complete responses
- Final sample 734 participants who referred someone they took a class with

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Selection into the experiment

- Higher performing students overrepresented [See](#)
- Low-SES overrepresented
- High-SES underrepresented

	Admin Data	Sample	p
Reading score	62.651	65.183	< 0.001
Math score	63.973	67.477	< 0.001
GPA	3.958	4.012	< 0.001
Low-SES	0.343	0.410	< 0.001
Med-SES	0.505	0.499	0.763
High-SES	0.153	0.091	< 0.001
Observations	4,417	734	

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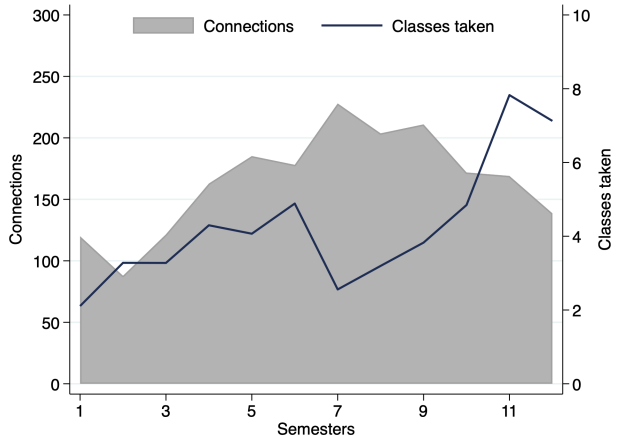
Balance between treatments

- Successful randomization

	Baseline	Bonus	p
Reading score	64.712	65.693	0.134
Math score	67.366	67.597	0.780
GPA	4.003	4.021	0.445
Connections	173.40	176.88	0.574
Classes taken	3.939	3.719	0.443
Low-SES	0.419	0.401	0.615
Med-SES	0.492	0.506	0.714
High-SES	0.089	0.094	0.824
Observations	382	352	734

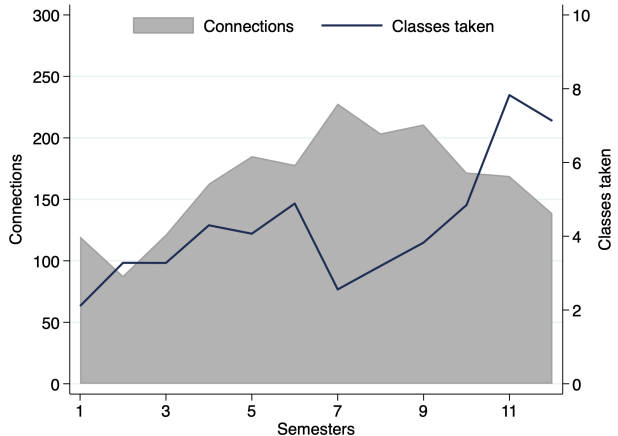
Network size and tie strength

- Classes taken with peers increase over time
- Connections peak around 7 semesters and decline as students change majors or graduate



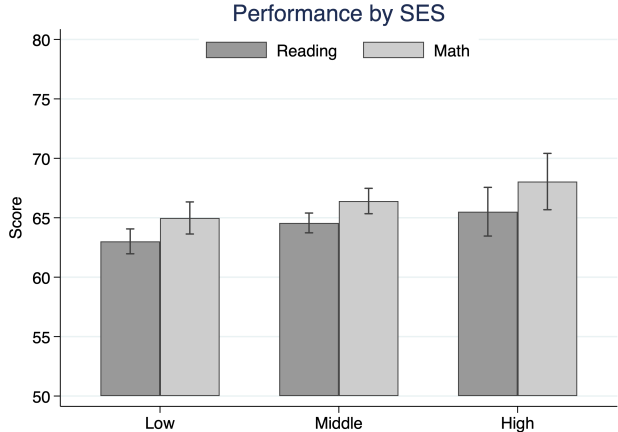
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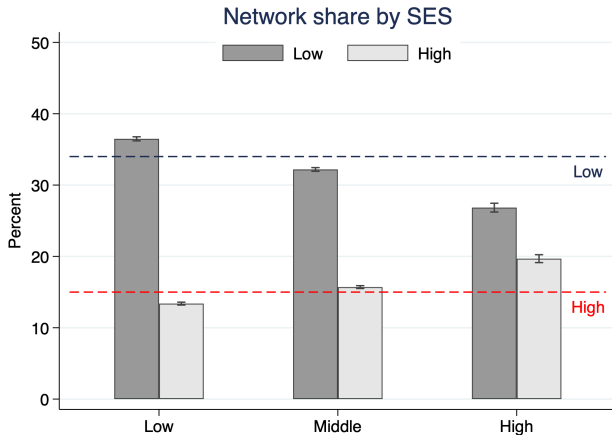
Entry exam performance across SES

- Very close distribution of entry exam scores in the sample because of selection



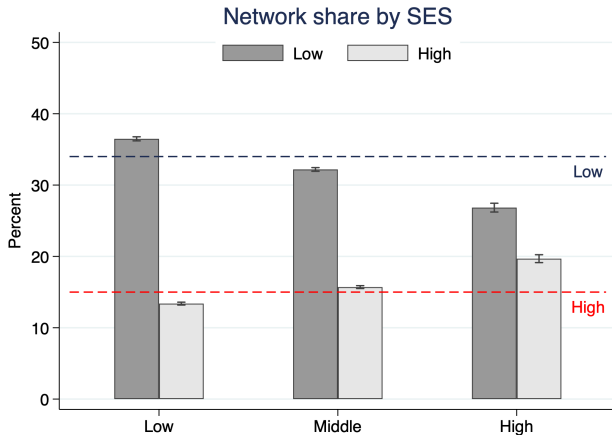
Network-level SES shares

- 35 % of UNAB is **Low-SES**, and 15 % **High-SES**
- Network shares are very different from the UNAB population
- Why?



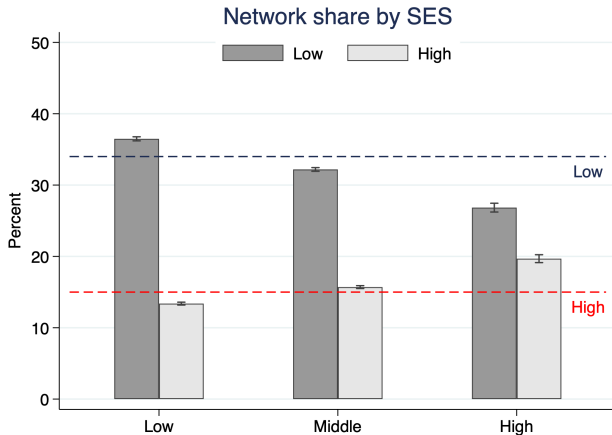
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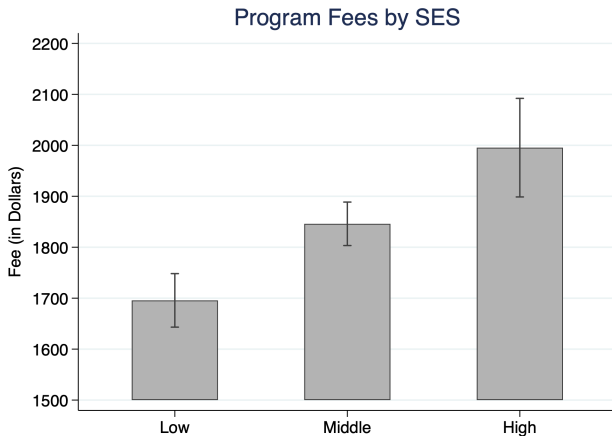
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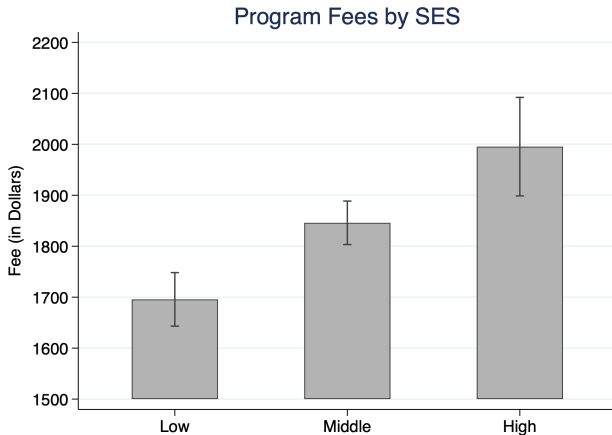
Selection into programs

- Low-SES study in more affordable programs
- Large difference as net average monthly salary around \$350



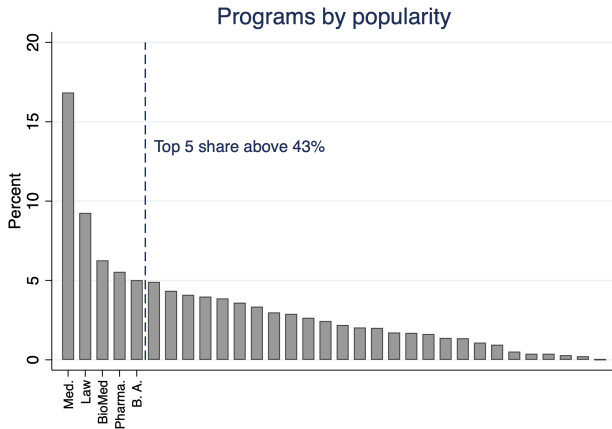
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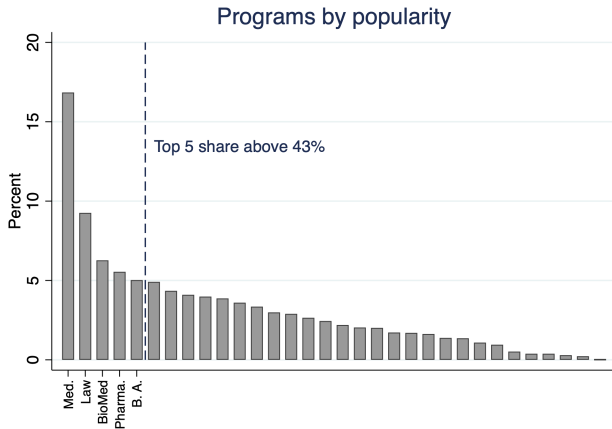
Selection into programs ctd.

- Largest programs are Medicine, Law, Biomedical Engineering, Pharmacology, and B. A.
- These comprise over 43% of all students
- But represent 60% of High-SES



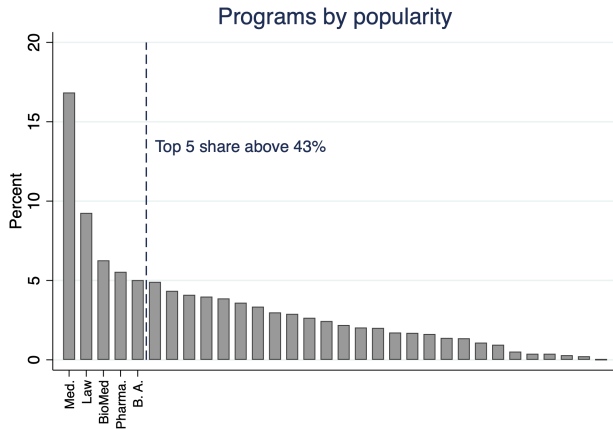
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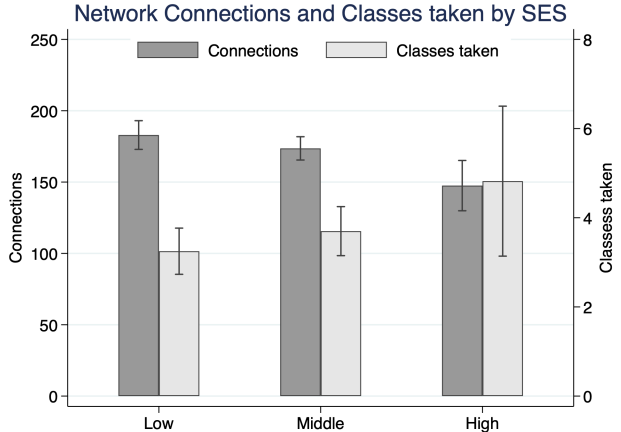
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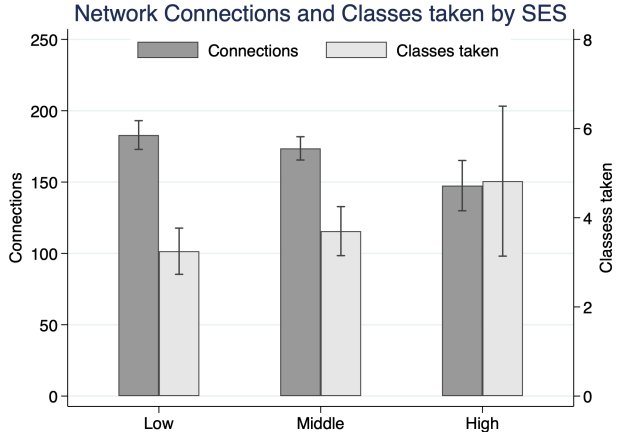
Network dynamics and program selection

- Connections decrease with SES
- Classes taken with peers increases with SES



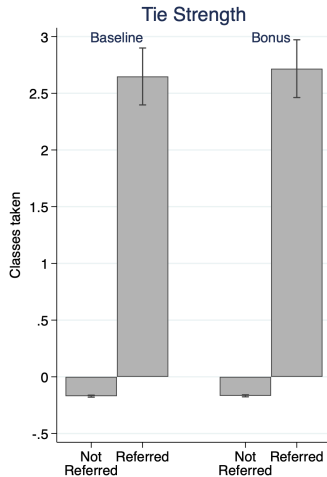
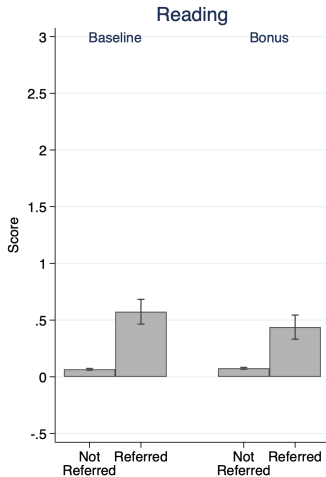
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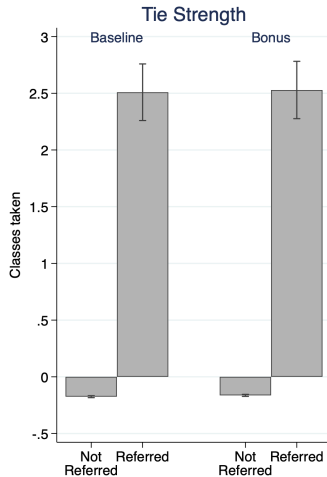
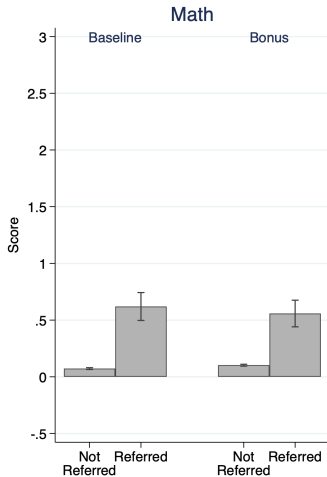
Referrals for Reading

- Referrals have higher reading scores and much higher tie strength
- No treatment effect on the referred (t -tests, $p > 0.08$)



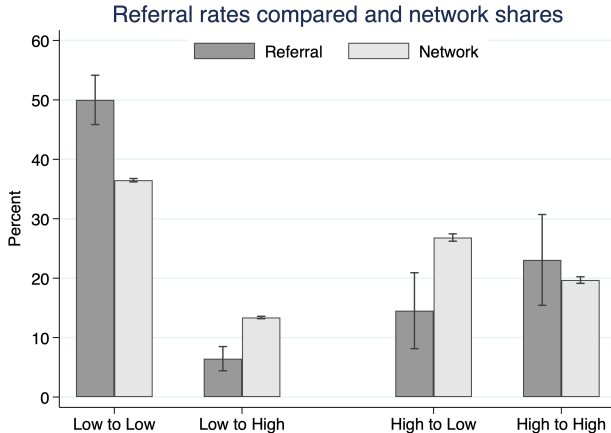
Referrals for Math

- Referrals have higher math scores and much higher tie strength
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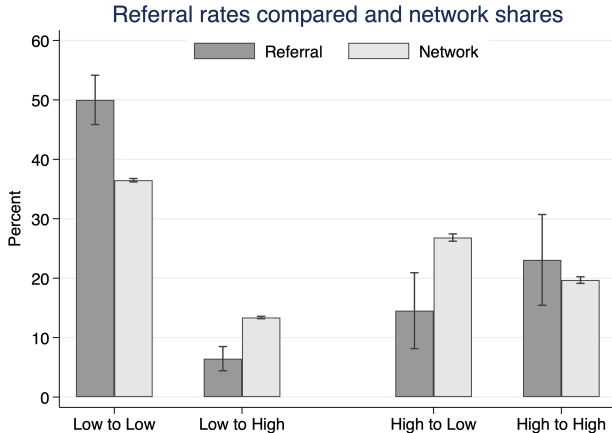
Referral SES composition

- Stark differences in referral rates considering network compositions were imbalanced to begin with
- Do differences persist after fixing scores and classes taken?



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Is there a SES bias in referrals?

FE Logit:

$$\Pr(\text{Refer}_{ij} = 1) = \Lambda(\beta_1 \text{SES}_j + \beta_2 \text{Score}_j + \beta_3 \text{Classes taken}_{ij} + \beta_4 \text{Score}_j \times \text{Tie}_{ij} + \alpha_i)$$

- Refer_{ij} : Binary outcome indicating whether individual i refers individual j
- SES_j : Referral j is Low, Middle, or High SES
- Score_j : Standardized Math or Reading score of referral j
- $\text{Classes taken}_{ij}$: Standardized number of classes taken together for i and j
- α_i : Individual fixed effect for referrer i

Is there a SES bias in referrals?

- Aggregate bias against High-SES
- Score and classes taken are strong predictors of referrals
- Small interaction between score and classes taken
- How about by referrer SES?

	(1)	(2)	(3)
Low	0.152** (0.070)	-0.013 (0.080)	-0.013 (0.080)
High	-0.300*** (0.108)	-0.306*** (0.115)	-0.315*** (0.116)
Nominee score		0.618*** (0.034)	0.527*** (0.035)
Classes taken		0.916*** (0.026)	0.894*** (0.026)
Score x Classes taken			0.059*** (0.015)
Observations	256997	256997	256997
Ind.	734	734	734
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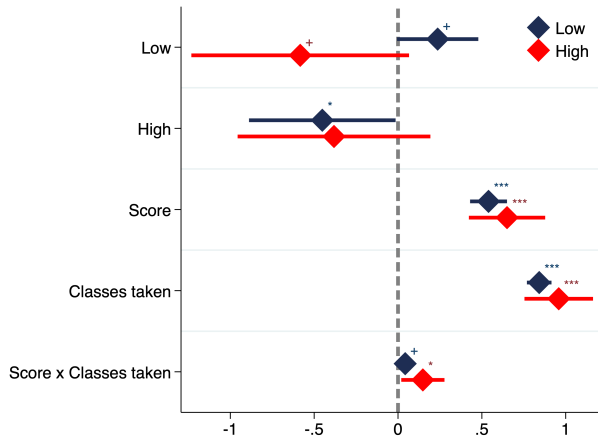
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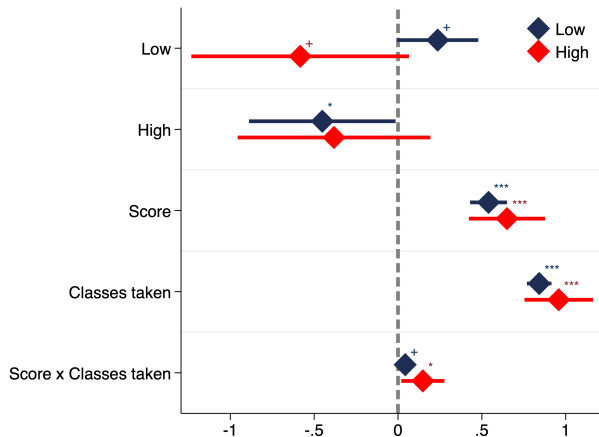
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- **Low-SES** referrers are biased against High-SES
- Do these biases impact referral performance?



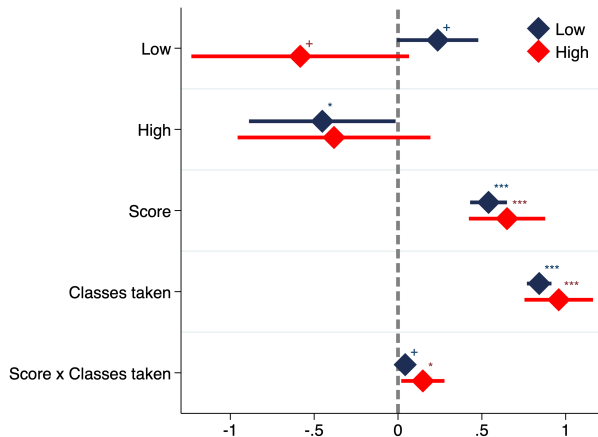
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Who makes better referrals?

OLS:

$$\text{Premium}_{ij} = \beta_0 + \beta_1 \text{SES}_i + \beta_2 \text{Score}_i + \beta_3 \Delta \text{OBIf}_i + \beta_4 \Delta \text{NBIf}_i + \mathbf{X}'_i \boldsymbol{\gamma} + \epsilon_i$$

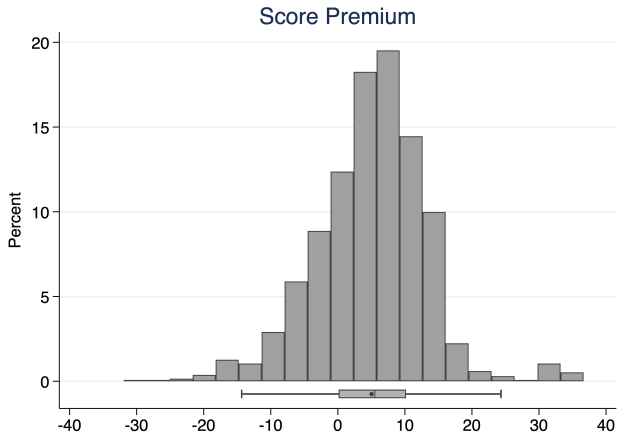
- Premium_{ij} : Nominee j 's test z-score minus mean score of i 's network
- SES_i : Referrer i 's socioeconomic status (Low, Middle, High)
- ΔOBIf_i , ΔNBIf_i : i 's beliefs on own and nominee test scores minus actual scores (standardized)
- Score_i : Referrer i 's own test z-score

Controls:

- Referrer i 's treatment (Baseline vs. Bonus)
- Test area indicator (Math vs. Reading)
- Number of classes taken together for i and nominee j

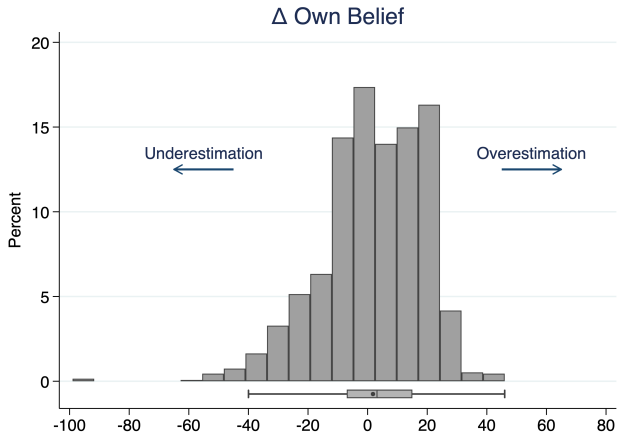
Referrals are better than network average

- Defined as nominee j 's score minus network average for each referrer i across Math and Reading
- No difference between SES groups [See](#)



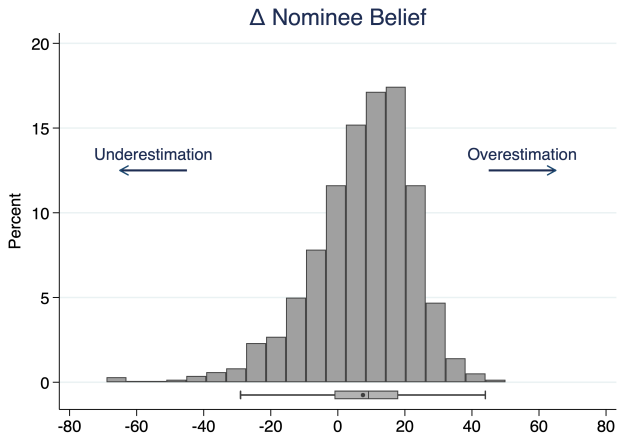
Beliefs about own scores are accurate

- Defined as referrer i 's own beliefs minus their score across Math and Reading
- No difference between SES groups [See](#)



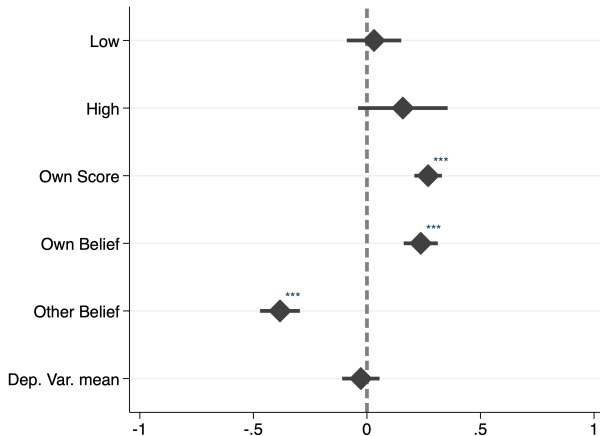
Beliefs about nominees reveal a positive bias

- Defined as referrer i 's beliefs about nominee j minus j 's score across Math and Reading
- No difference between SES groups [See](#)
- Did not collect beliefs about SES group performance in general



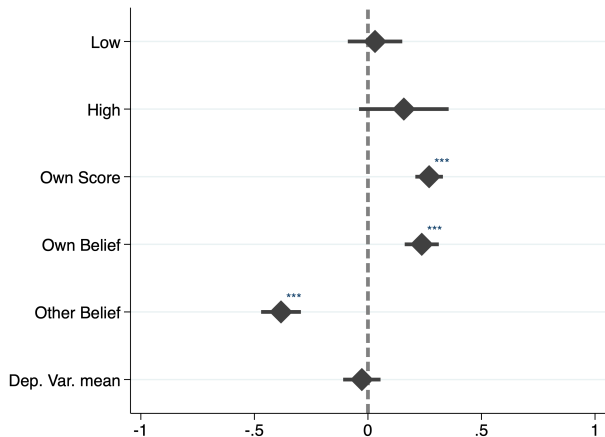
Who makes better referrals?

- Referrer's own score increases premium
- Referrer's knowledge of own scores increases premium [See](#)
- Referrer's knowledge of nominee's score increases premium [See](#)
- No effect of SES on referral premium



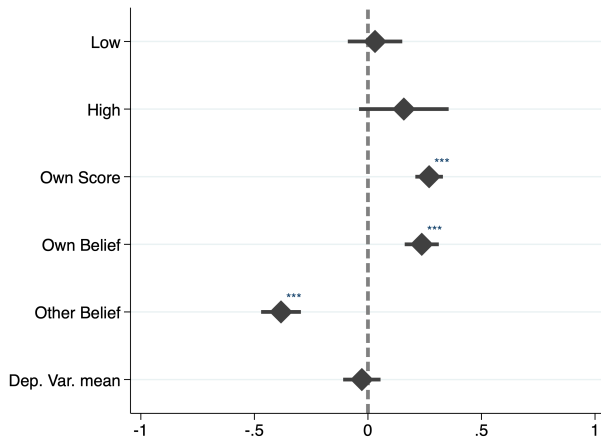
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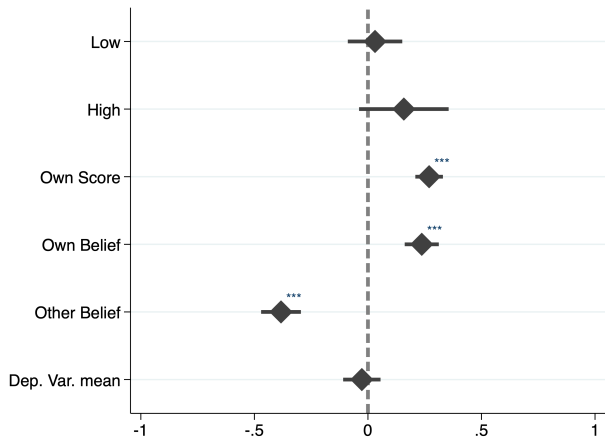
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No heterogeneity in beliefs and performance

- **Marginally** stronger effect of own score for Low-SES (joint F-test $p < 0.1$)
- Effect of own belief driven by outliers

	(1)
Own score x Low	0.128* (0.065)
Own score x High	-0.043 (0.101)
Δ own belief x Low	0.009 (0.082)
Δ own belief x High	-0.248** (0.118)
Δ nominee belief x Low	0.002 (0.094)
Δ nominee belief x High	0.039 (0.159)
Observations	1,342
Individuals	734

Summary

- Networks are separated by SES
- Low and High-SES exhibit bias against one another and worsen the network effect in referrals
- All referrers uniformly nominate better as their own scores get higher, have more accurate beliefs about own and nominee scores

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Next steps & Conclusion

- Robustness check on the bias findings with the conditional logit model
- Start writing!
- Individuals across SES refer equally well ...
- ... but **prefer** nominating similar others in SES

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Reading

- Reading score and tie strength are strong predictors of referrals
- No interaction between reading score and tie strength
- No evidence for a Low-SES bias

Alt. Specification

	(1)	(2)	(3)
Low-SES	0.143* (0.086)	-0.007 (0.101)	-0.007 (0.102)
High-SES	-0.293** (0.128)	-0.271* (0.139)	-0.275** (0.139)
Nominee score		0.566*** (0.044)	0.513*** (0.048)
Tie		0.949*** (0.031)	0.939*** (0.032)
Score x Tie			0.030 (0.018)
Observations	128847	128847	128847
Ind.	673	673	673
Chi-test	10.81	1117.46	1145.58

Math

- Math score and tie strength are strong predictors of referrals
- Significant but small interaction between math score and tie strength
- No evidence for a Low-SES bias

Alt. Specification

	(1)	(2)	(3)
Low-SES	0.161* (0.086)	-0.013 (0.099)	-0.015 (0.100)
High-SES	-0.309** (0.131)	-0.343** (0.142)	-0.361** (0.144)
Nominee score		0.662*** (0.040)	0.546*** (0.042)
Tie		0.885*** (0.029)	0.851*** (0.029)
Score x Tie			0.089*** (0.019)
Observations	128150	128150	128150
Ind.	669	669	669
Chi-test	12.38	1122.75	1154.40

Reading (Low-SES vs others)

- Alternative specification with binary Low-SES
- No evidence for a Low-SES bias
- Consistent with main model

[Return](#)

	(1)	(2)	(3)
Low-SES	0.199** (0.083)	0.041 (0.100)	0.042 (0.100)
Nominee Score		0.561*** (0.044)	0.509*** (0.048)
Tie		0.951*** (0.031)	0.941*** (0.032)
Score x Tie			0.029 (0.018)
Observations	128,847	128,847	128,847
Ind.	673	673	673
Chi-test	5.73	1100.40	1127.92

Math (Low-SES vs others)

- Alternative specification with binary Low-SES
- No evidence for a Low-SES bias
- Consistent with main model

[Return](#)

	(1)	(2)	(3)
Low-SES	0.220*** (0.083)	0.049 (0.097)	0.050 (0.098)
Nominee Score		0.653*** (0.040)	0.538*** (0.041)
Tie		0.887*** (0.029)	0.854*** (0.030)
Score x Tie			0.088*** (0.019)
Observations	128,150	128,150	128,150
Ind.	669	669	669
Chi-test	7.02	1124.24	1156.08

Reading across SES

- Restrict sample by referrer SES
- Low-SES bias against other SES
- No evidence for a bias against Low-SES

Alt. Specification

	Low-SES (1)	Middle-SES (2)	High-SES (3)
Low-SES	0.266* (0.155)	-0.202 (0.149)	-0.275 (0.369)
High-SES	-0.307 (0.268)	-0.254 (0.186)	-0.511 (0.377)
Nominee score	0.548*** (0.076)	0.483*** (0.067)	0.553*** (0.179)
Tie	0.873*** (0.046)	0.991*** (0.046)	0.986*** (0.128)
Score x Tie	0.019 (0.027)	0.021 (0.027)	0.145** (0.072)
Observations	54611	64596	9640
Ind.	275	340	58
Chi-test	531.49	553.06	97.57

Reading across SES (Low-SES vs others)

- Alternative specification with binary Low-SES
- Low-SES bias against other SES
- No evidence for a bias against Low-SES
- Consistent with main model

[Return](#)

	Low-SES (1)	Other-SES (2)
Low-SES	0.312** (0.153)	-0.160 (0.137)
Nominee score	0.545*** (0.076)	0.486*** (0.062)
Tie	0.876*** (0.046)	0.996*** (0.044)
Score x Tie	0.019 (0.027)	0.036 (0.025)
Observations	54611	74236
Ind.	275	398
Chi-test	517.41	627.40

Math across SES

- Restrict sample by referrer SES
- Low-SES bias against High-SES
- High-SES bias against Low-SES

Alt. Specification

	Low-SES (1)	Middle-SES (2)	High-SES (3)
Low-SES	0.208 (0.150)	-0.101 (0.145)	-0.986** (0.469)
High-SES	-0.619** (0.283)	-0.313 (0.195)	-0.269 (0.381)
Nominee score	0.540*** (0.064)	0.526*** (0.060)	0.730*** (0.128)
Tie	0.814*** (0.041)	0.870*** (0.043)	0.929*** (0.128)
Score x Tie	0.067** (0.028)	0.096*** (0.029)	0.160 (0.097)
Observations	55531	62492	10127
Ind.	283	327	59
Chi-test	525.71	561.64	110.76

Math across SES (Low-SES vs others)

- Alternative specification with binary Low-SES
- Low-SES bias against other SES
- No evidence for a bias against Low-SES
- Consistent with main model

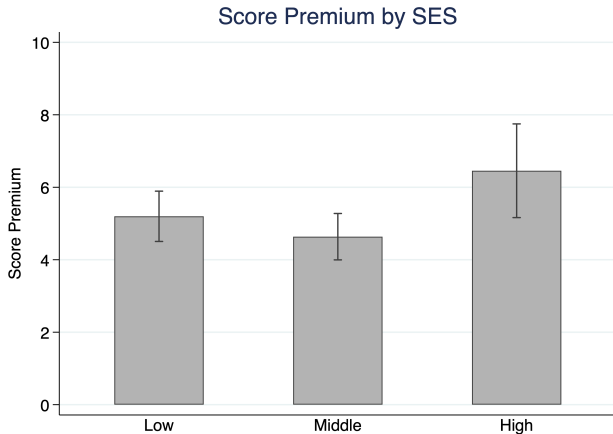
[Return](#)

	Low-SES (1)	Other-SES (2)
Low-SES	0.296** (0.147)	-0.138 (0.136)
Nominee score	0.533*** (0.063)	0.541*** (0.055)
Tie	0.820*** (0.042)	0.882*** (0.042)
Score x Tie	0.064** (0.028)	0.106*** (0.027)
Observations	55531	72619
Ind.	283	386
Chi-test	523.84	647.99

No differences for Score Premium by SES

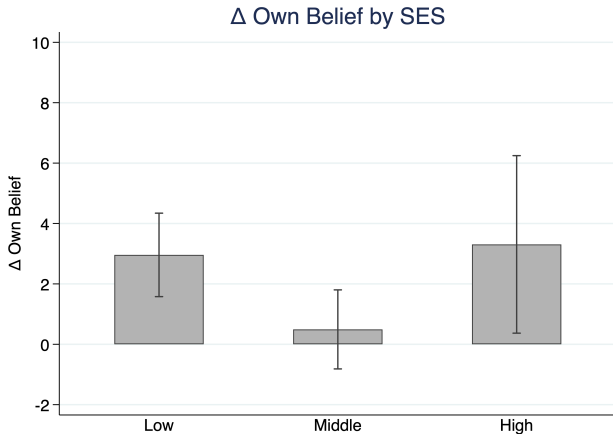
- Middle-SES refer slightly worst (joint F-test, $p < 0.1$)

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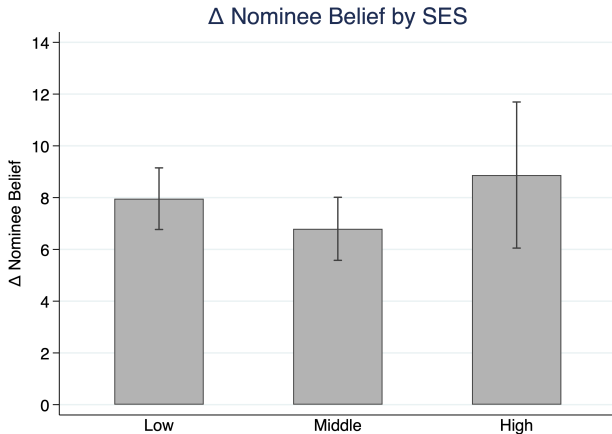
No differences for own score beliefs by SES

- Middle-SES are slightly more accurate (joint F-test, $p < 0.1$) [Return](#)



No differences for nominee score beliefs by SES

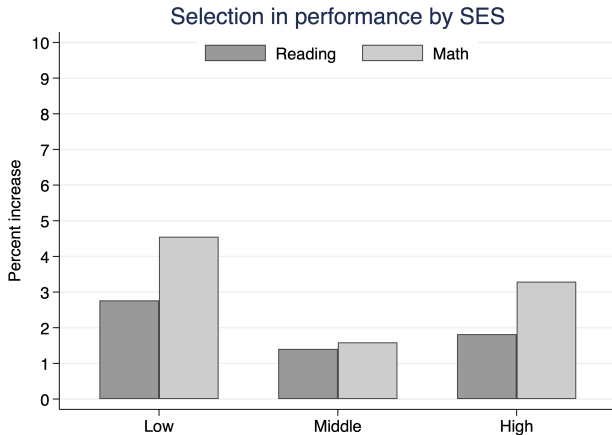
- No difference (joint F-test, $p = 0.41$) [Return](#)



Strong selection by Low-SES

- Significant Low-SES selection (t -tests, $p < 0.01$)
- Other SES groups do select less (t -tests, $p > 0.05$)

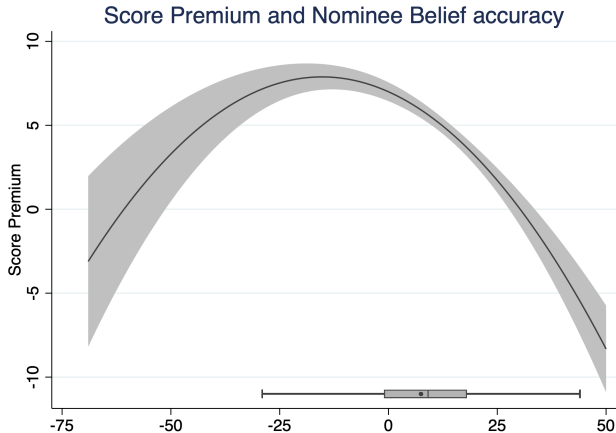
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Nominee Beliefs are rewarded for accuracy

- Negative coefficient is explained by quadratic shape

Return



Own score beliefs are rewarded for accuracy

- Positive coefficient is explained by quadratic shape and extreme outliers

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