

# **Class differences in social networks: Evidence from a referral experiment**

**1-hour presentation**

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# Motivation

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- 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

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- 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

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- 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

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- 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

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- 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
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# Balance between treatments

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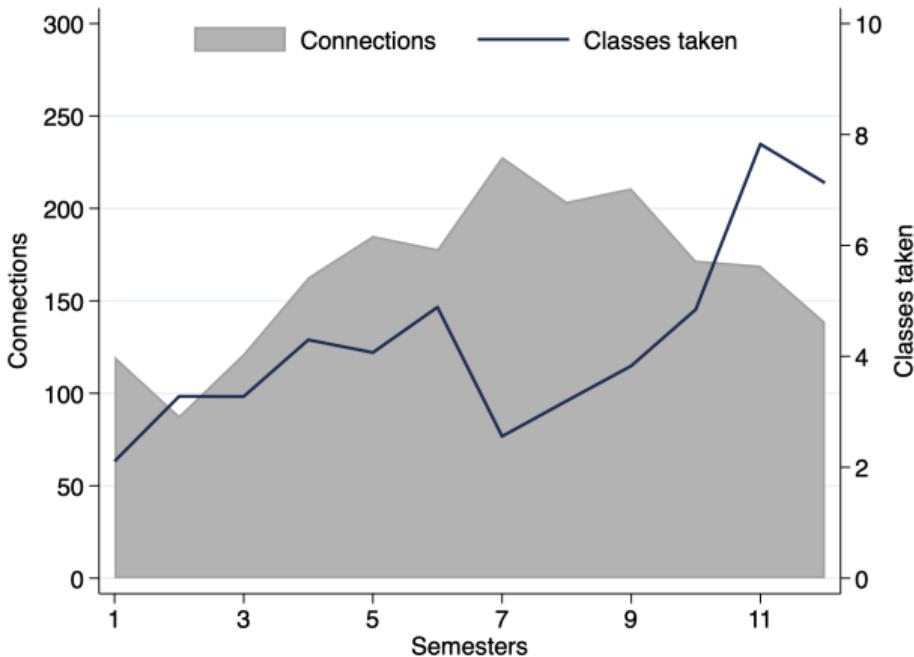
- Successful randomization

	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

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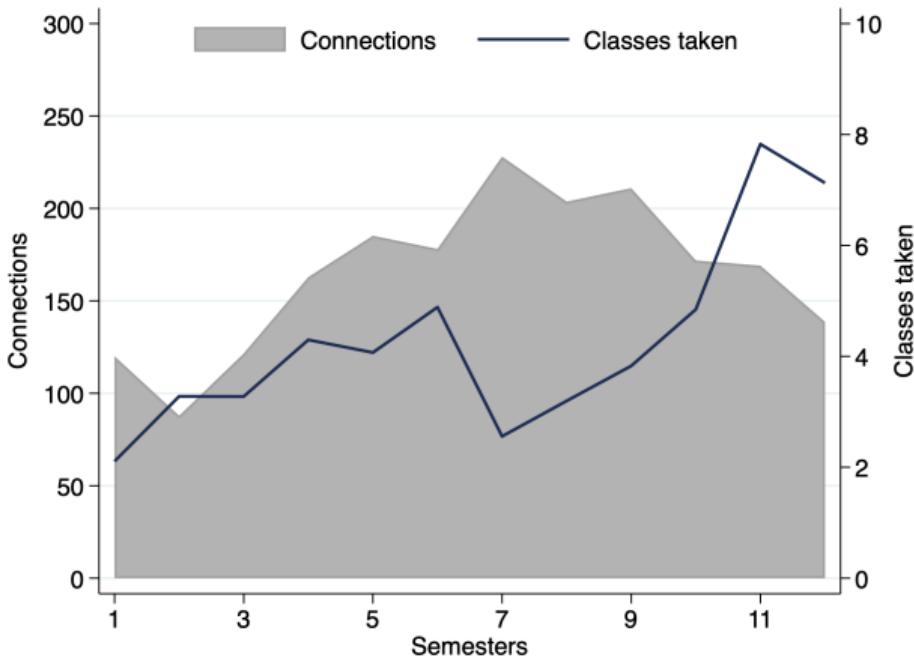
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- Connections peak around 7 semesters and decline as students change majors or graduate



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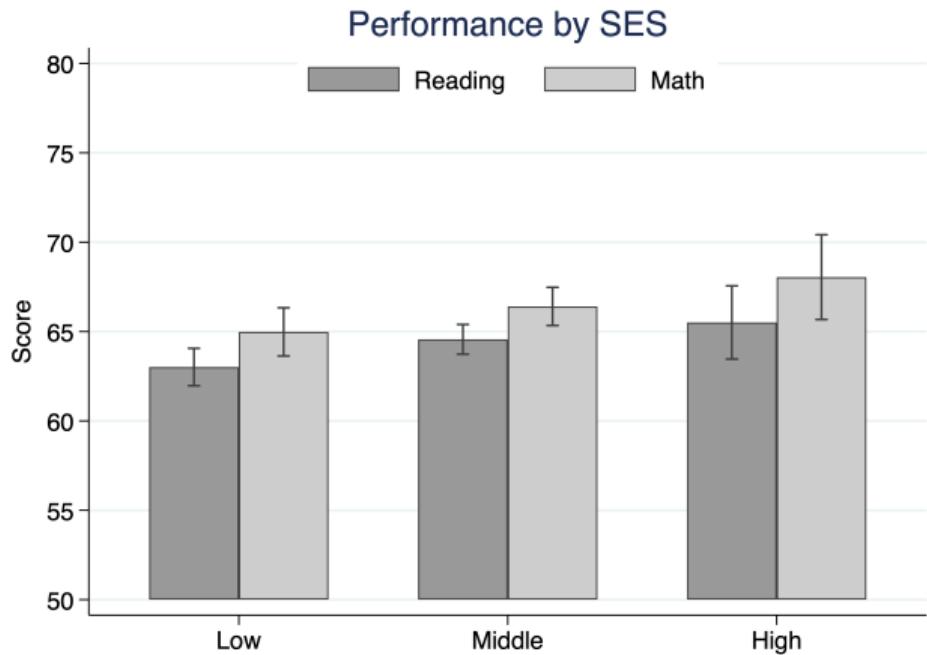
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# Entry exam performance across SES

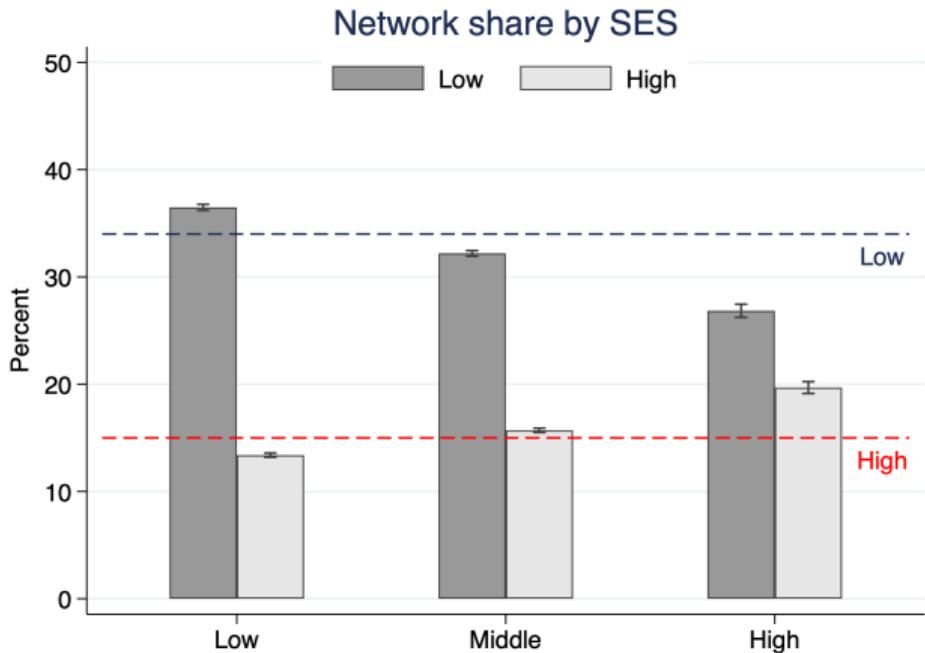
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- Very close distribution of entry exam scores in the sample because of selection



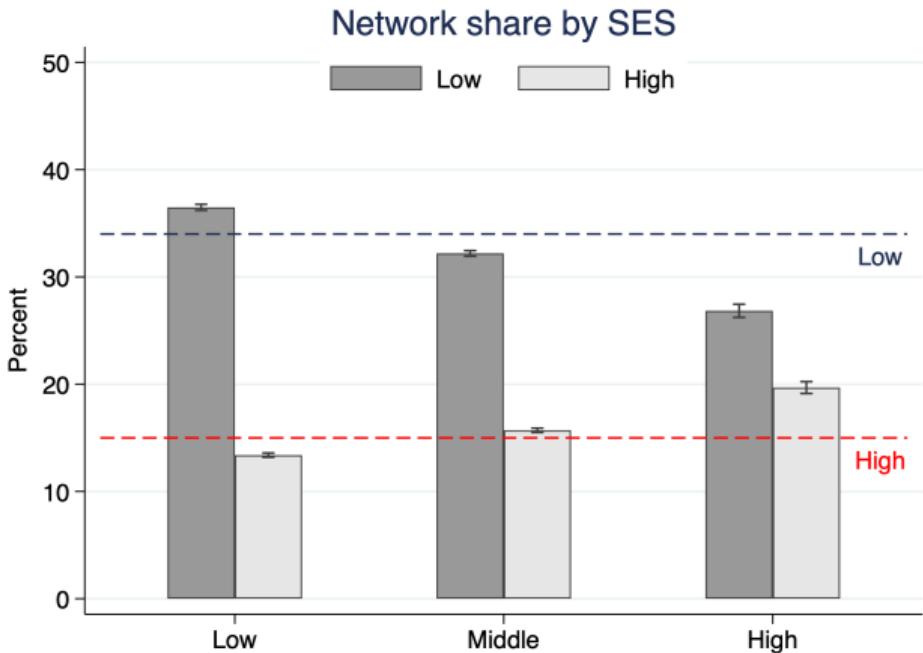
# Network-level SES shares

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



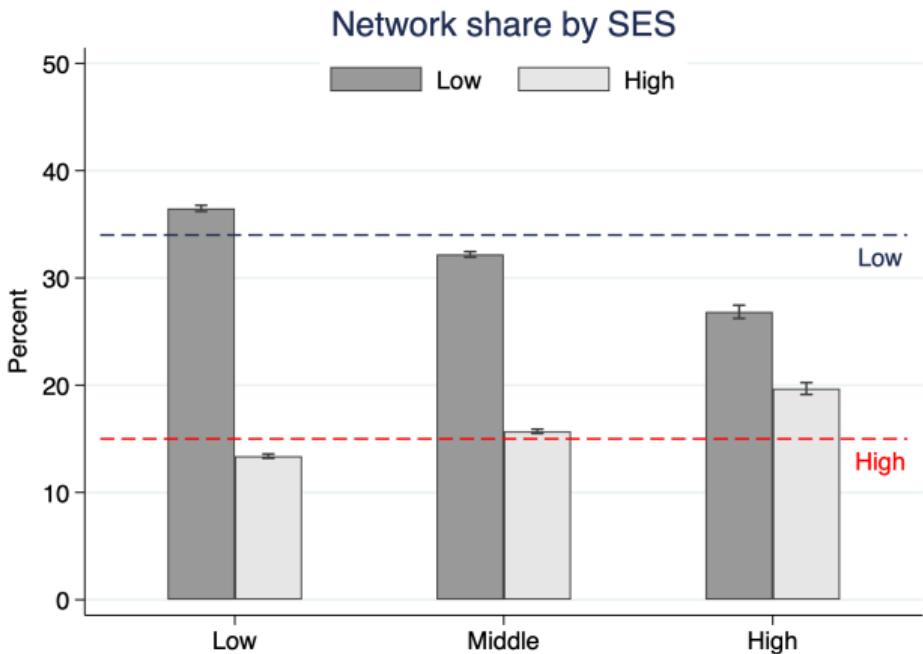
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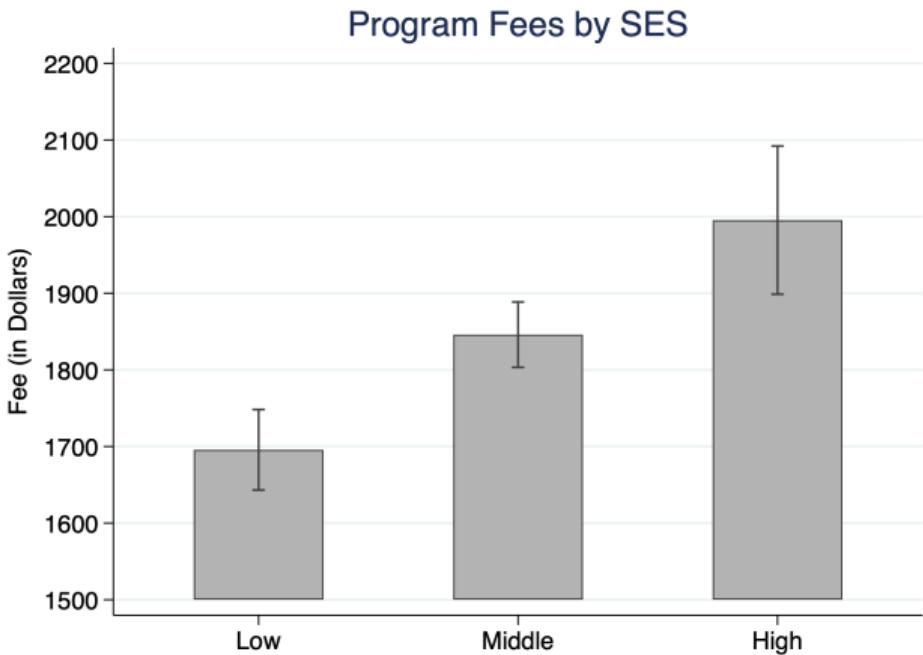
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# Selection into programs

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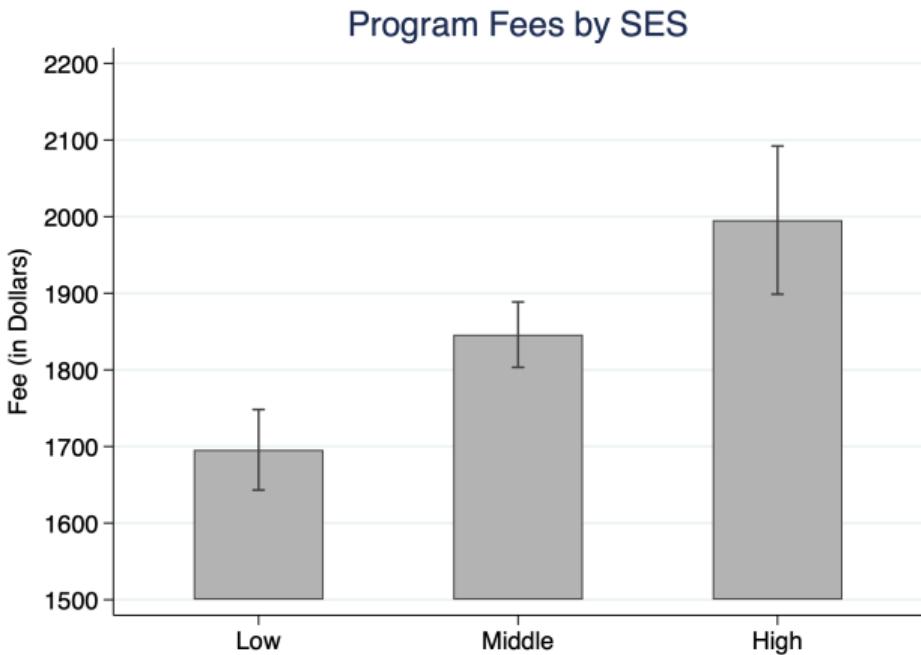
- Low-SES study in more affordable programs
- Large difference as net average monthly salary around \$350



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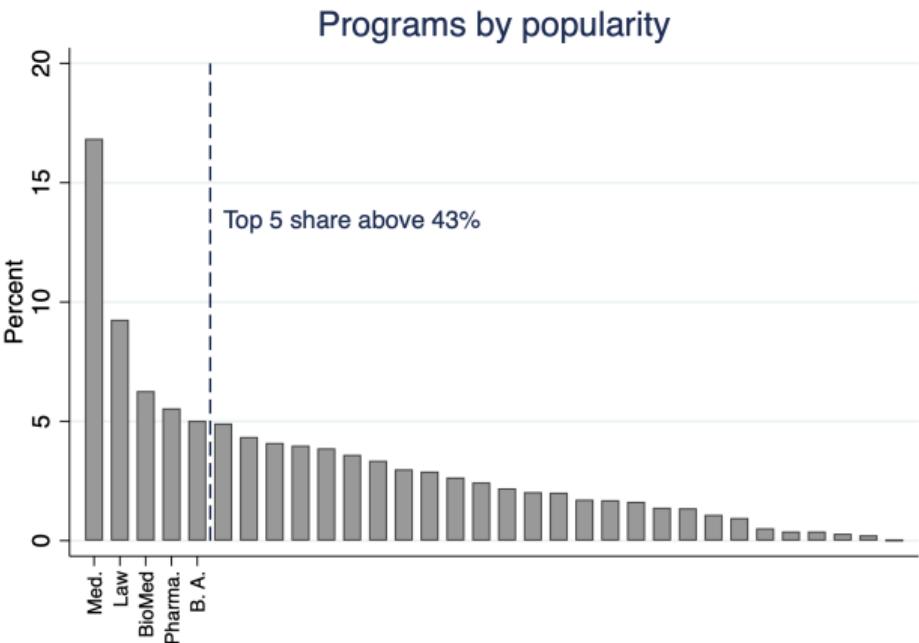
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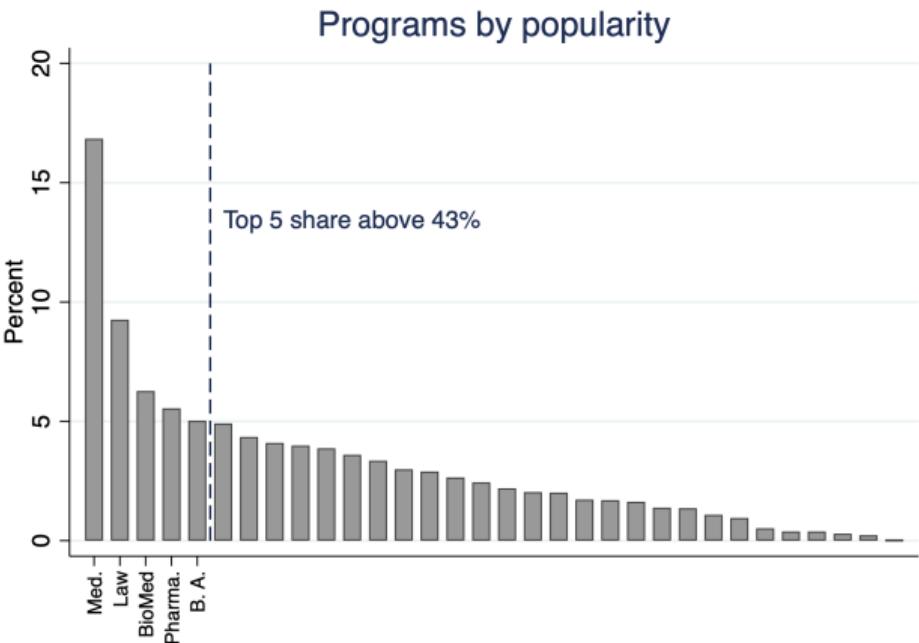
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- These comprise over 43% of all students
- But represent 60% of High-SES



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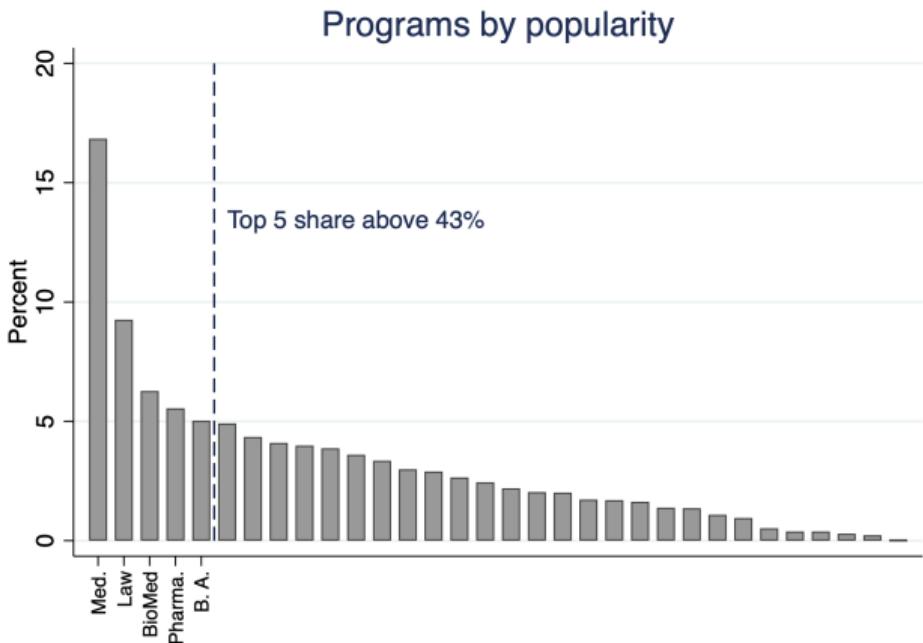
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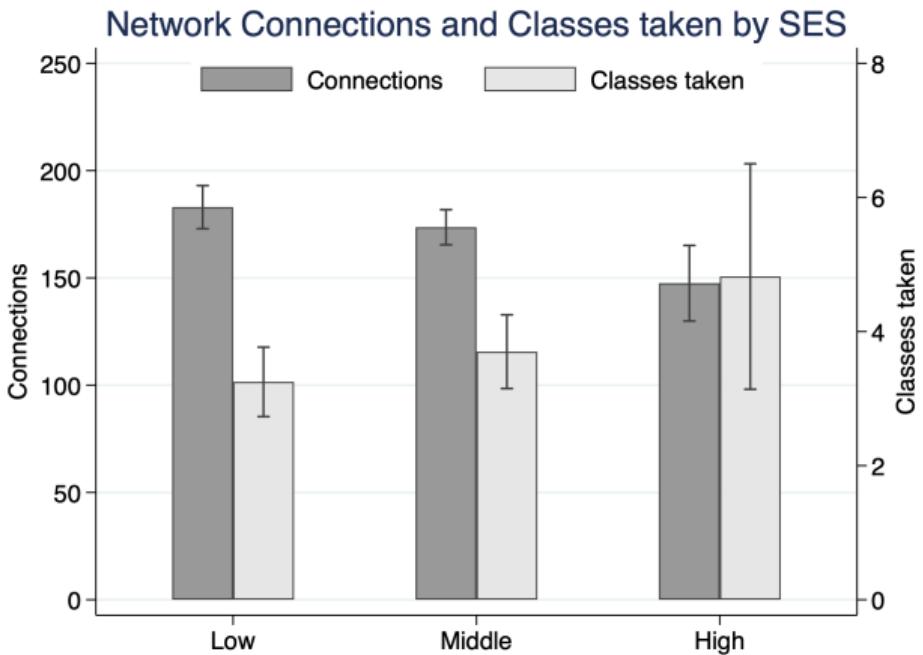
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# Network dynamics and program selection

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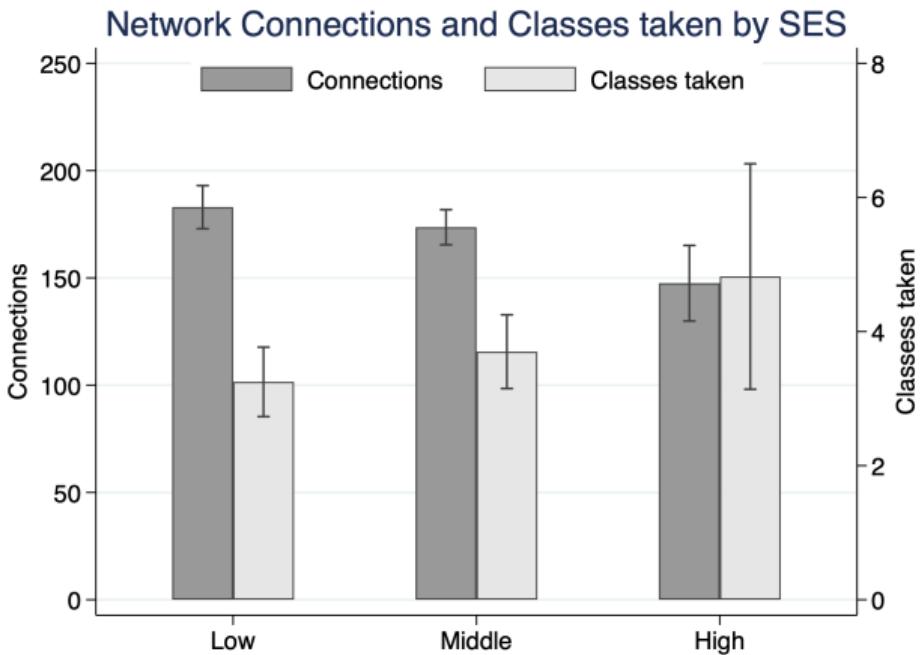
- Connections decrease with SES
- Classes taken with peers increases with SES



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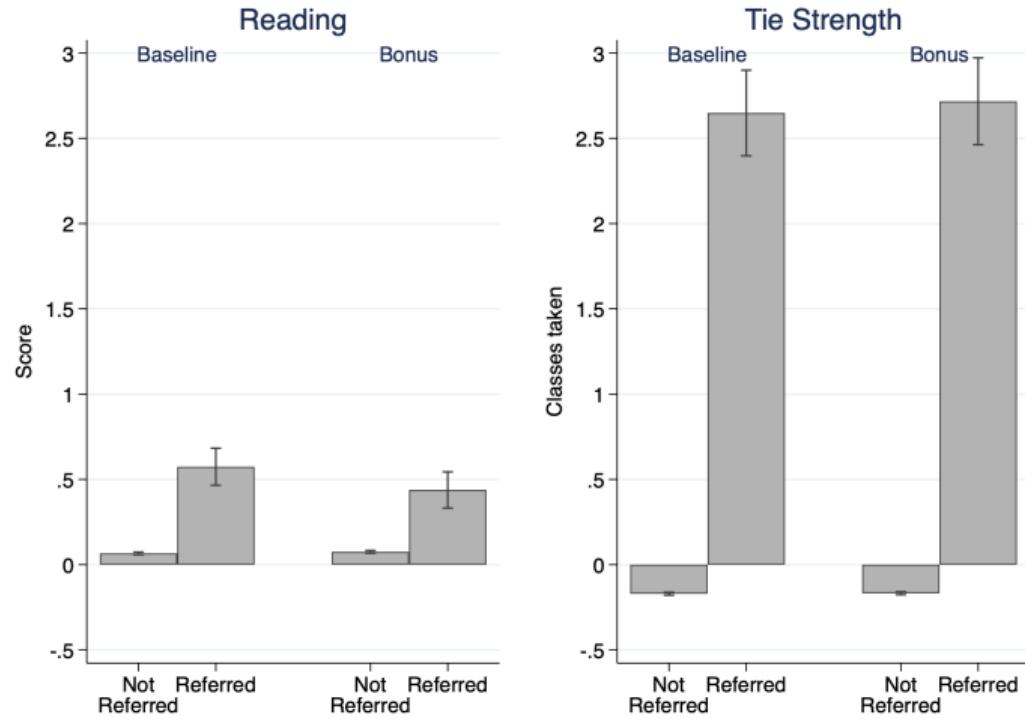
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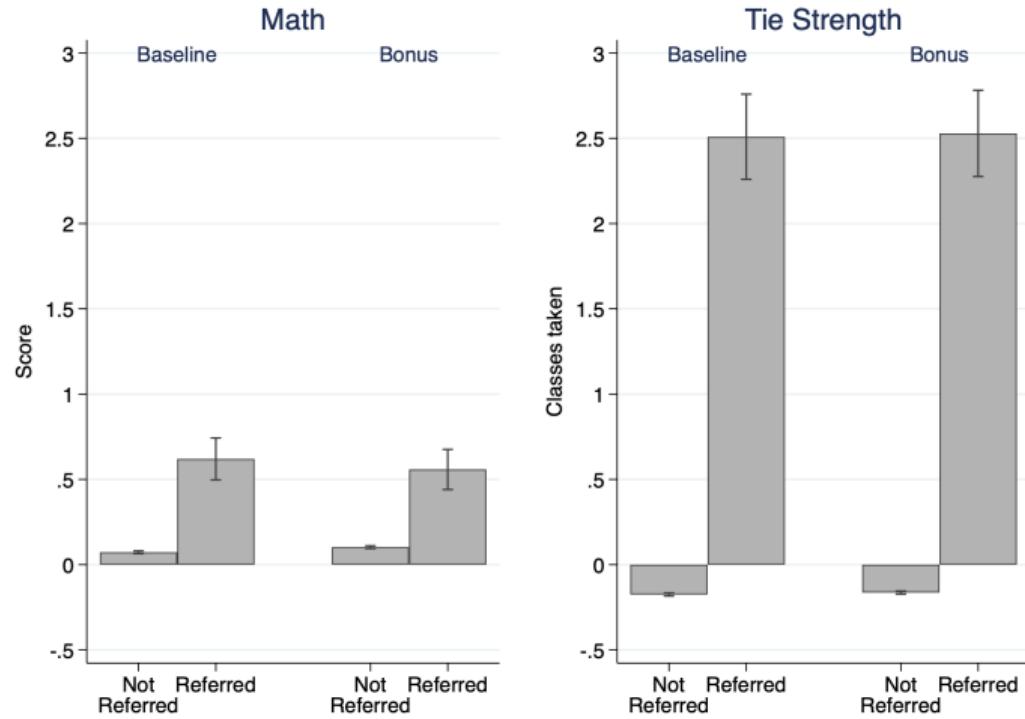
# Referrals for Reading

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



# Referrals for Math

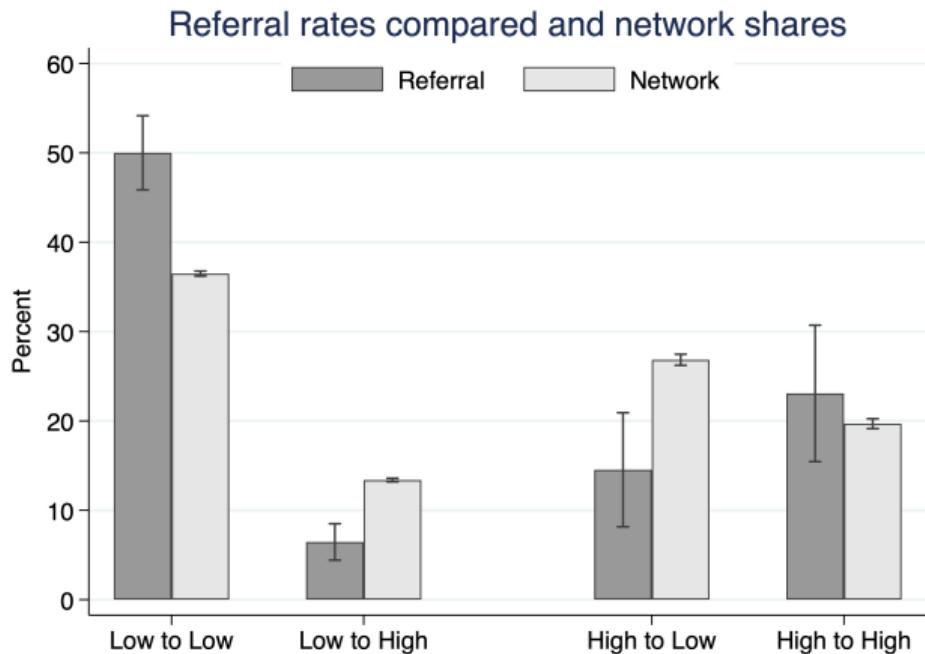
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# Referral SES composition

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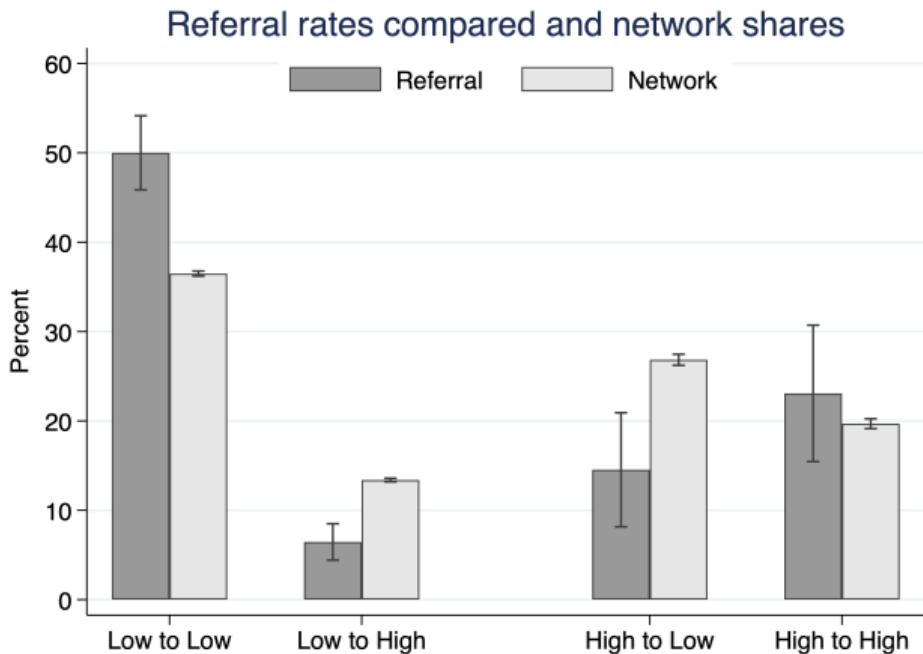
- Stark differences in referral rates considering network compositions were imbalanced to begin with
- Do differences persist after fixing scores and classes taken?



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# Is there a SES bias in referrals?

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**FE Logit:**

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

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

# Is there a SES bias in referrals?

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- 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
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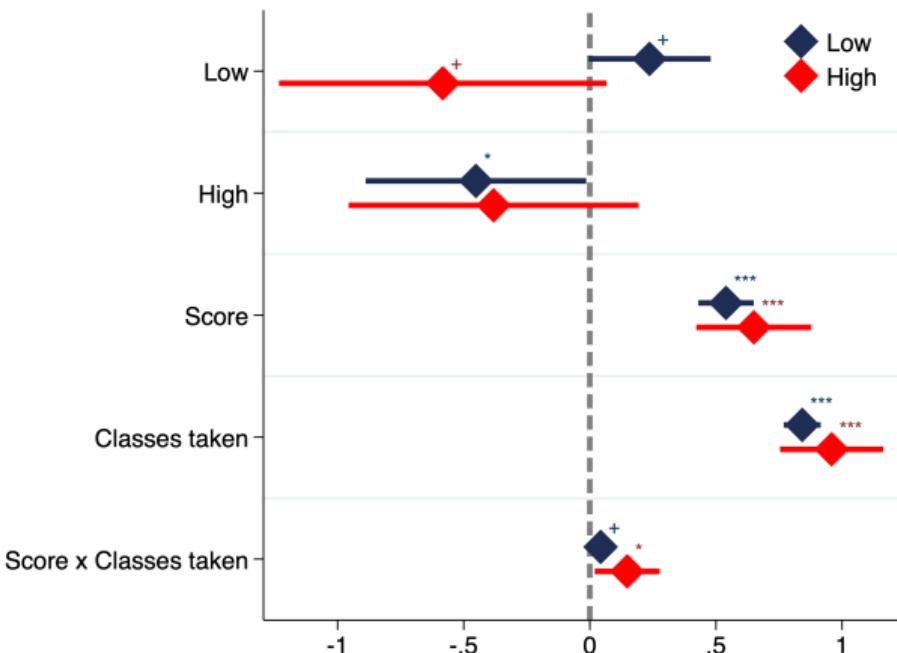
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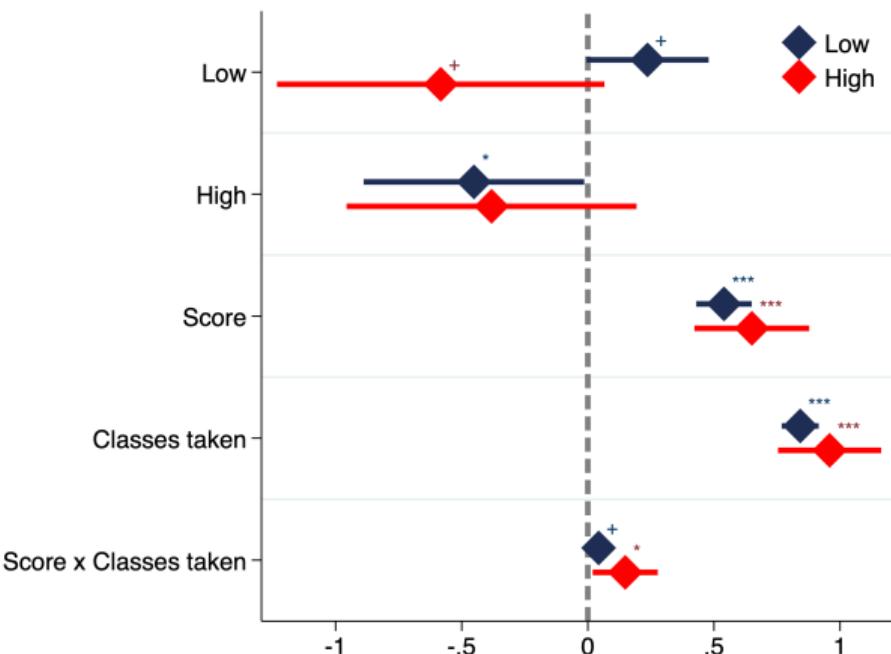
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- **High-SES** referrers are biased against Low-SES
- **Low-SES** referrers are biased against High-SES
- Do these biases impact referral performance?



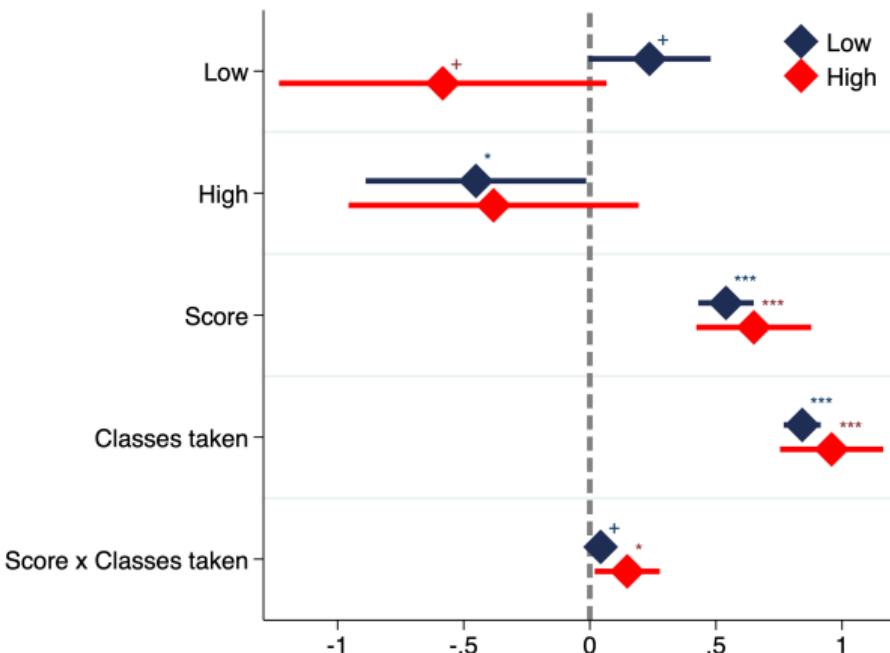
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# Who makes better referrals?

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OLS:

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

- Premium<sub>ij</sub>: Nominee *j*'s test z-score minus mean score of *i*'s network
- SES<sub>i</sub>: Referrer *i*'s socioeconomic status (Low, Middle, High)
- ΔOBlf<sub>i</sub>, ΔNBlf<sub>i</sub>: *i*'s beliefs on own and nominee test scores minus actual scores (standardized)
- Score<sub>i</sub>: Referrer *i*'s own test z-score

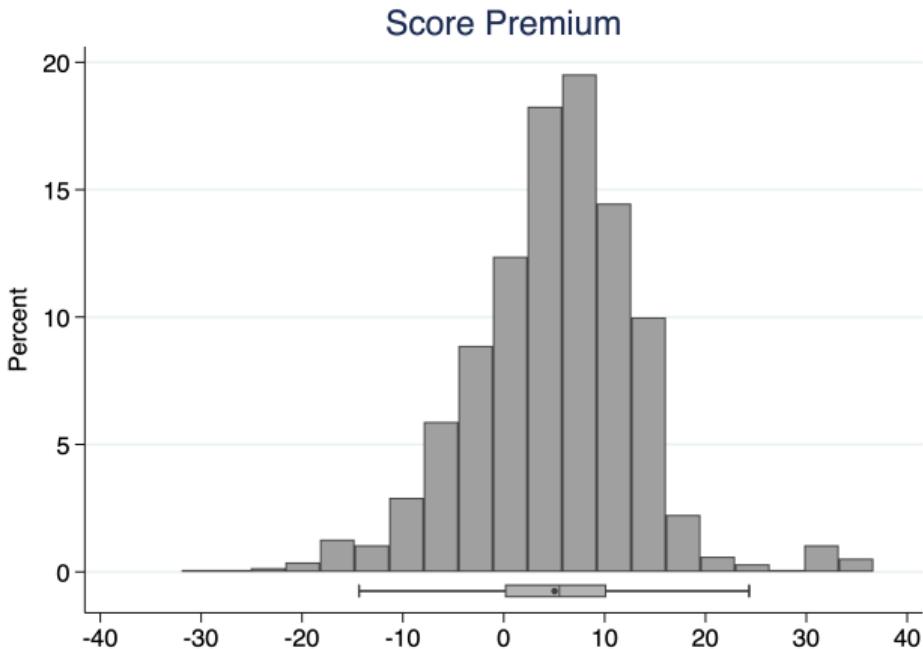
Controls:

- 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

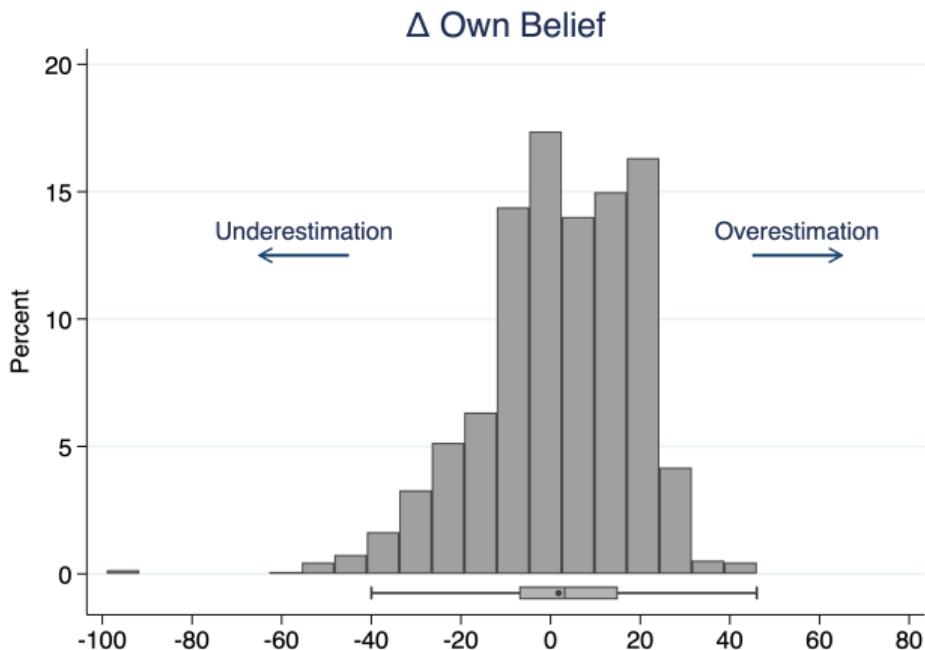
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- Defined as nominee  $j$ 's score minus network average for each referrer  $i$  across Math and Reading
- No difference between SES groups See



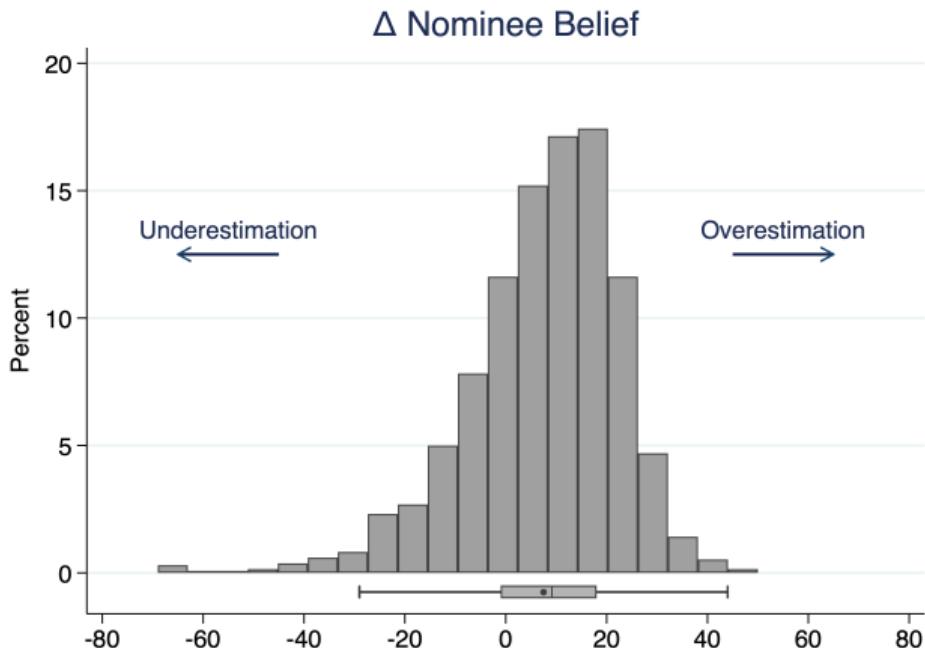
# Beliefs about own scores are accurate

- Defined as referrer  $i$ 's own beliefs minus their score across Math and Reading
- No difference between SES groups See



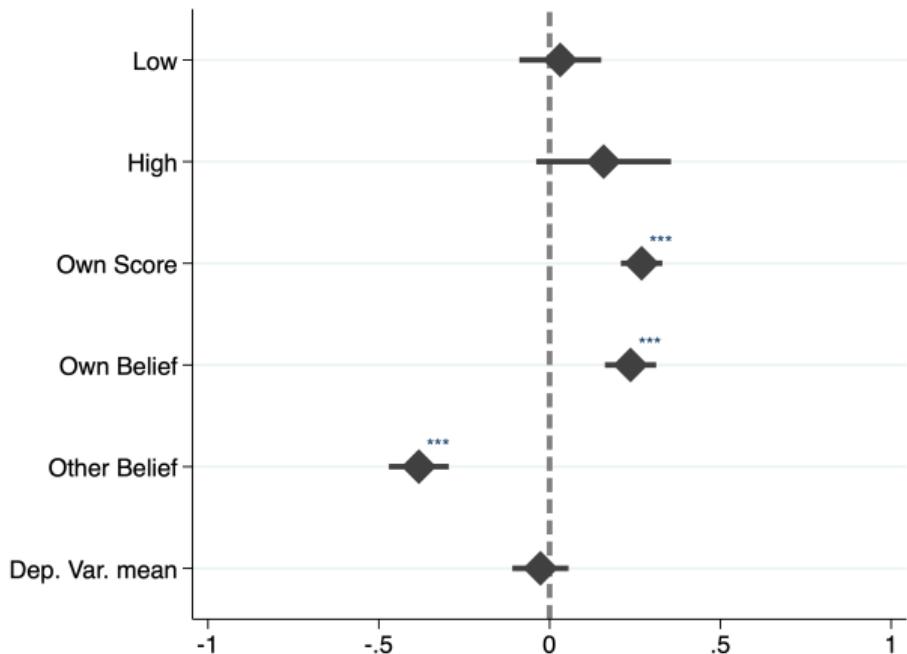
# Beliefs about nominees reveal a positive bias

- 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



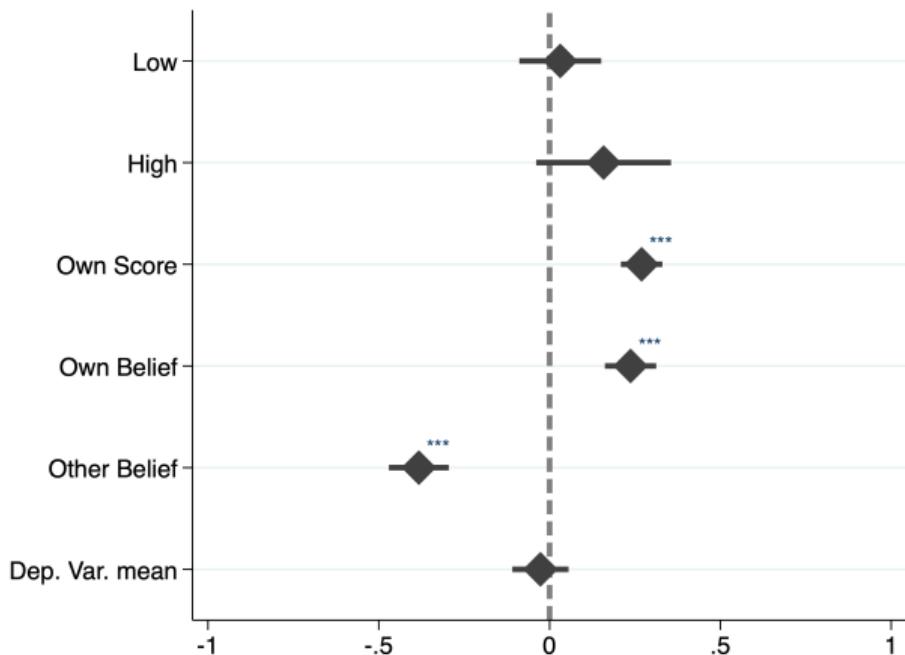
# Who makes better referrals?

- 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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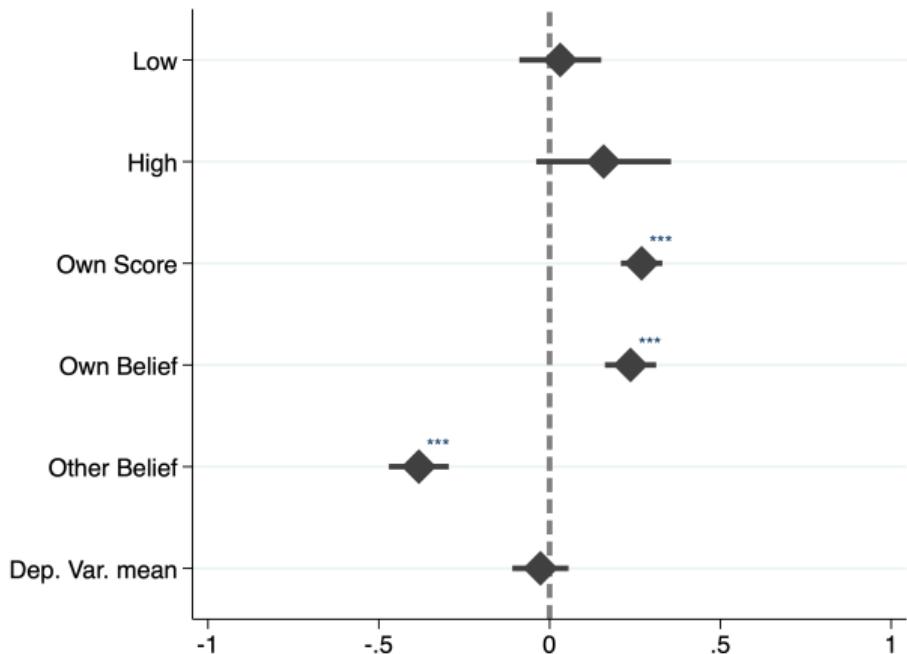
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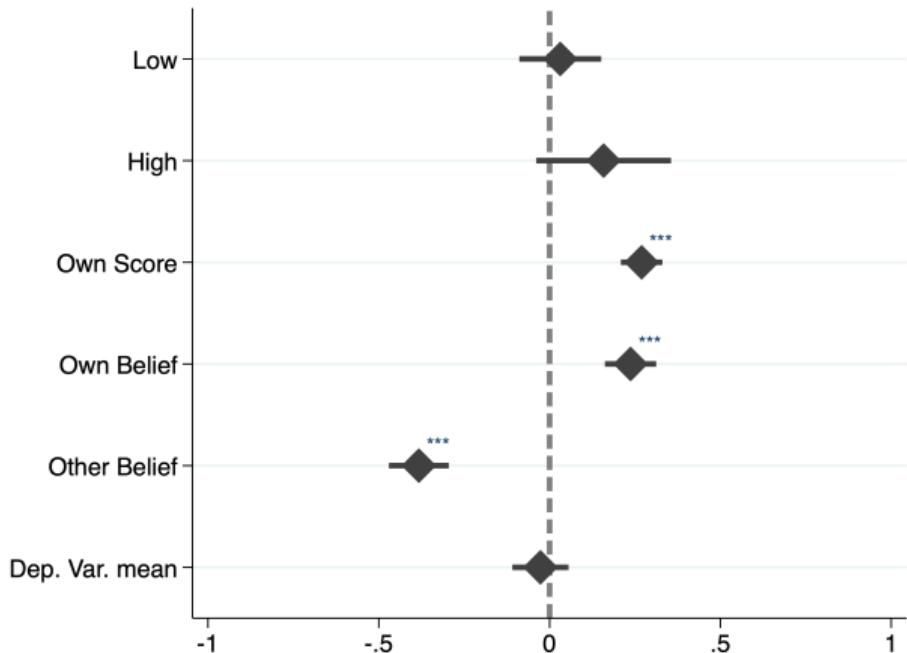
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# No heterogeneity in beliefs and performance

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- 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

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- 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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- 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

# Next steps & Conclusion

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- 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

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- 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

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- 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

	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

[Return](#)

# Math across SES

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- 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

	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

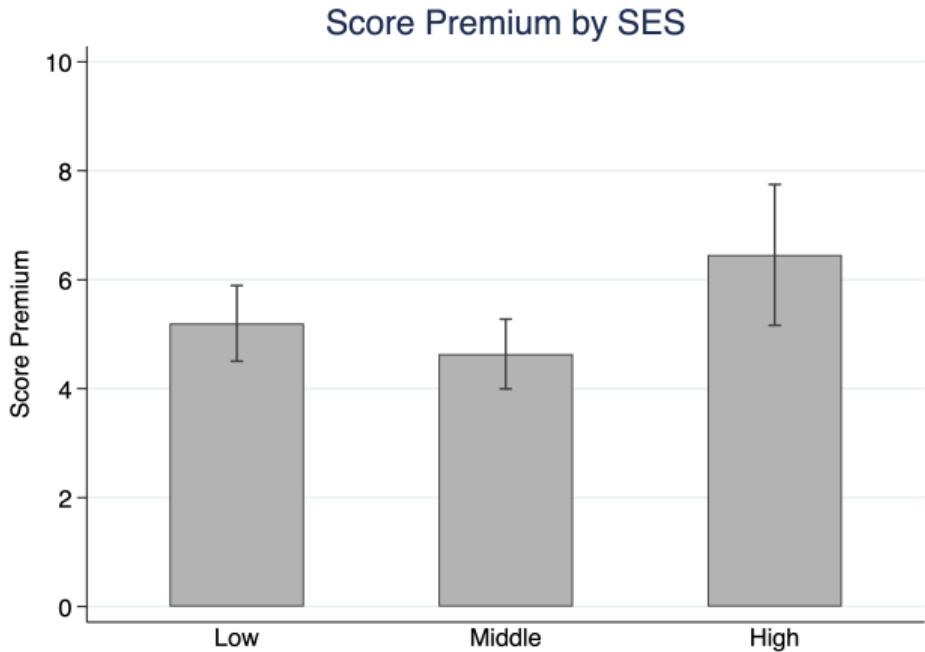
[Return](#)

# No differences for Score Premium by SES

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

[Return](#)

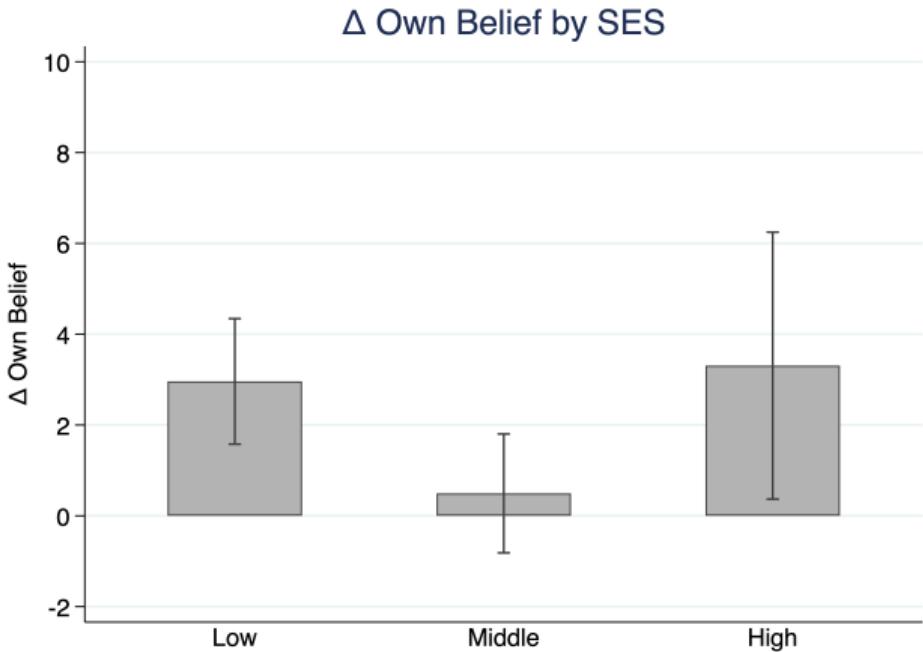


# No differences for own score beliefs by SES

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

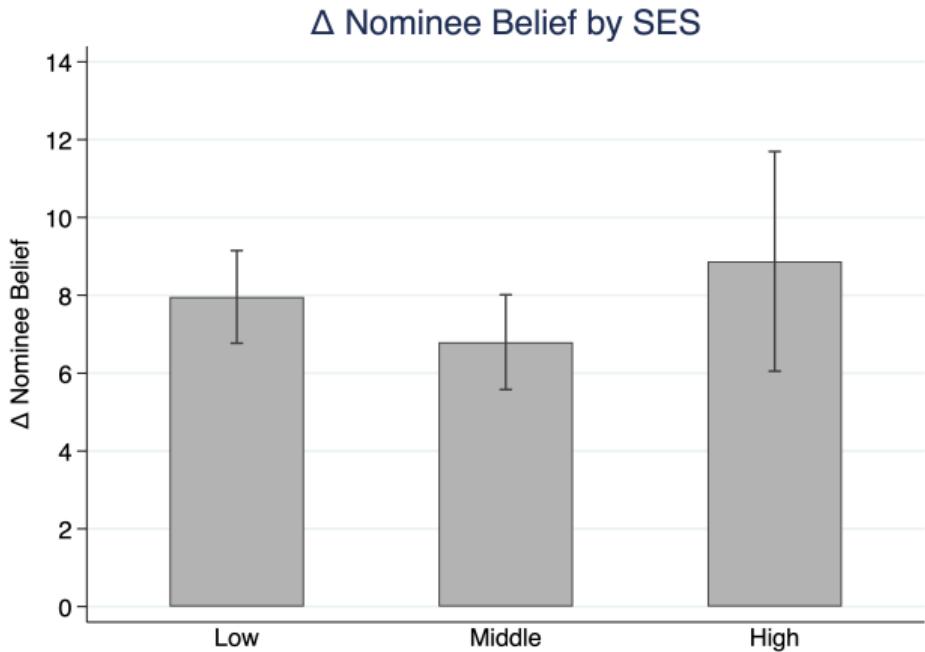
[Return](#)



# No differences for nominee score beliefs by SES

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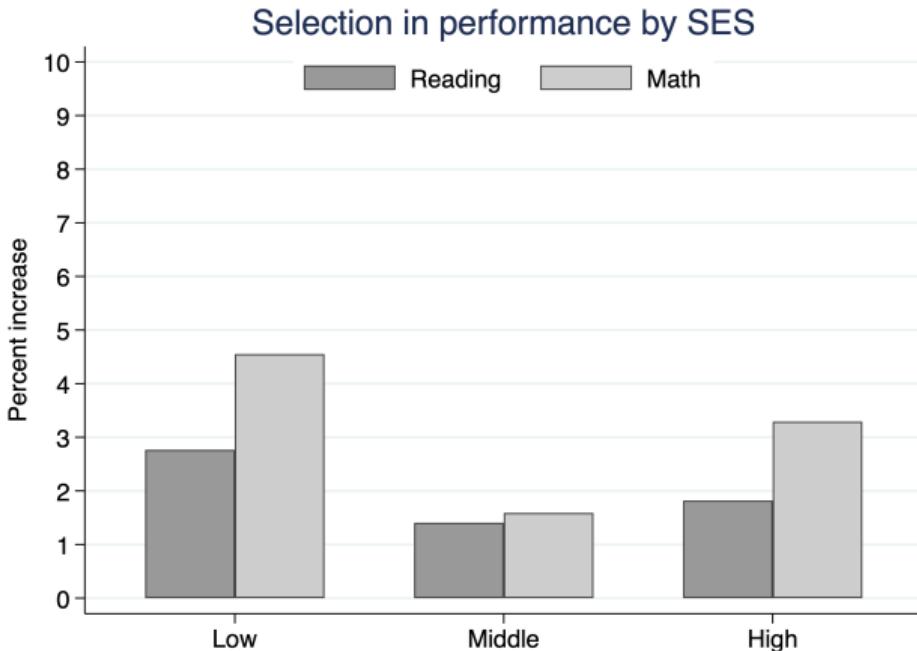
- No difference (joint F-test,  
 $p = 0.41$ ) [Return](#)



# Strong selection by Low-SES

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

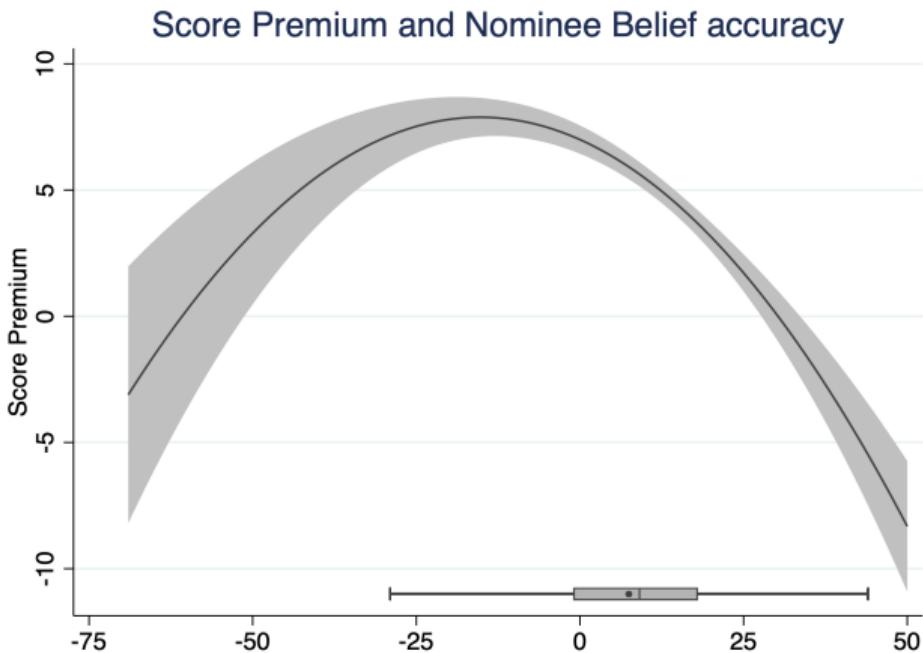


# Nominee Beliefs are rewarded for accuracy

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- Negative coefficient is explained by quadratic shape

[Return](#)



# Own score beliefs are rewarded for accuracy

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- Positive coefficient is explained by quadratic shape and extreme outliers

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