

# Virtual Advising for High-Achieving High School Students

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AEFP 2020

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# Overview

- **Persistent gaps in college success by income**

(Bailey & Dynarski, 2011; Bastedo & Jaquette, 2011)

- **Issues of undermatch, college selectivity rates**

(Cohodes & Goodman, 2014; Hoxby & Avery, 2013; Smith, Pender, & Howell, 2013)

- **Driven by complexity of application processes and lack of support**

(Klasik, 2012; Page & Scott-Clayton, 2016)

- **Tension between “low” and “high” touch interventions**

(Bird et al., 2019; Castleman & Page, 2015; Castleman, Page, & Schooley, 2014; Gurantz et al., 2019; Hoxby & Turner, 2013; Hyman, forthcoming) and (Barr & Castleman, 2017; Bettinger & Evans, forthcoming; Carrell & Sacerdote, 2017; Castleman & Goodman, 2018; Page, Kehoe, Castleman, & Sahadewo, 2017; Phillips & Reber, 2019)



# This paper

- Identify ~16,000 high-achieving low/middle-income students in 2018 HS cohort
  - Achievement: Top 10% on PSAT/SAT scores
- Randomly offered “virtual advising”
  - 1-on-1 college counseling done remotely
  - Single adviser can serve broad geographic region
- Focus on ~290 “CollegePoint” colleges; graduation rates above 70 percent
  - [https://ogurantz.github.io/website/Gurantz\\_2019\\_VirtualAdvising\\_Colleges.pdf](https://ogurantz.github.io/website/Gurantz_2019_VirtualAdvising_Colleges.pdf)



- 3/4 assigned to treatment
  - 12000 T vs 4000 C
- Randomly assigned to 23 advisers
- 44% offered treatment engaged with a counselor
  - Caseload ~230

Table 1. Descriptive statistics and covariate balance

	Control group mean	Test for statistical difference
<i>Individual characteristics</i>		
Female	47.4%	-0.006 (0.009)
Parent has bachelor's degree	39.5%	0.003 (0.009)
White	38.4%	-0.004 (0.009)
Hispanic	17.6%	0.005 (0.007)
African-American	5.2%	-0.003 (0.004)
Asian	32.7%	-0.001 (0.008)
<i>School characteristics</i>		
City	36.8%	-0.001 (0.009)
Suburb	37.0%	-0.009 (0.009)
Town	5.8%	-0.003 (0.004)
Rural	9.6%	0.006 (0.005)

Notes: + p<0.10, \* p<0.05, \*\* p<0.01.

Appendix Figure 1. Geographic distribution of low- and middle-income high-achieving students in the experimental sample

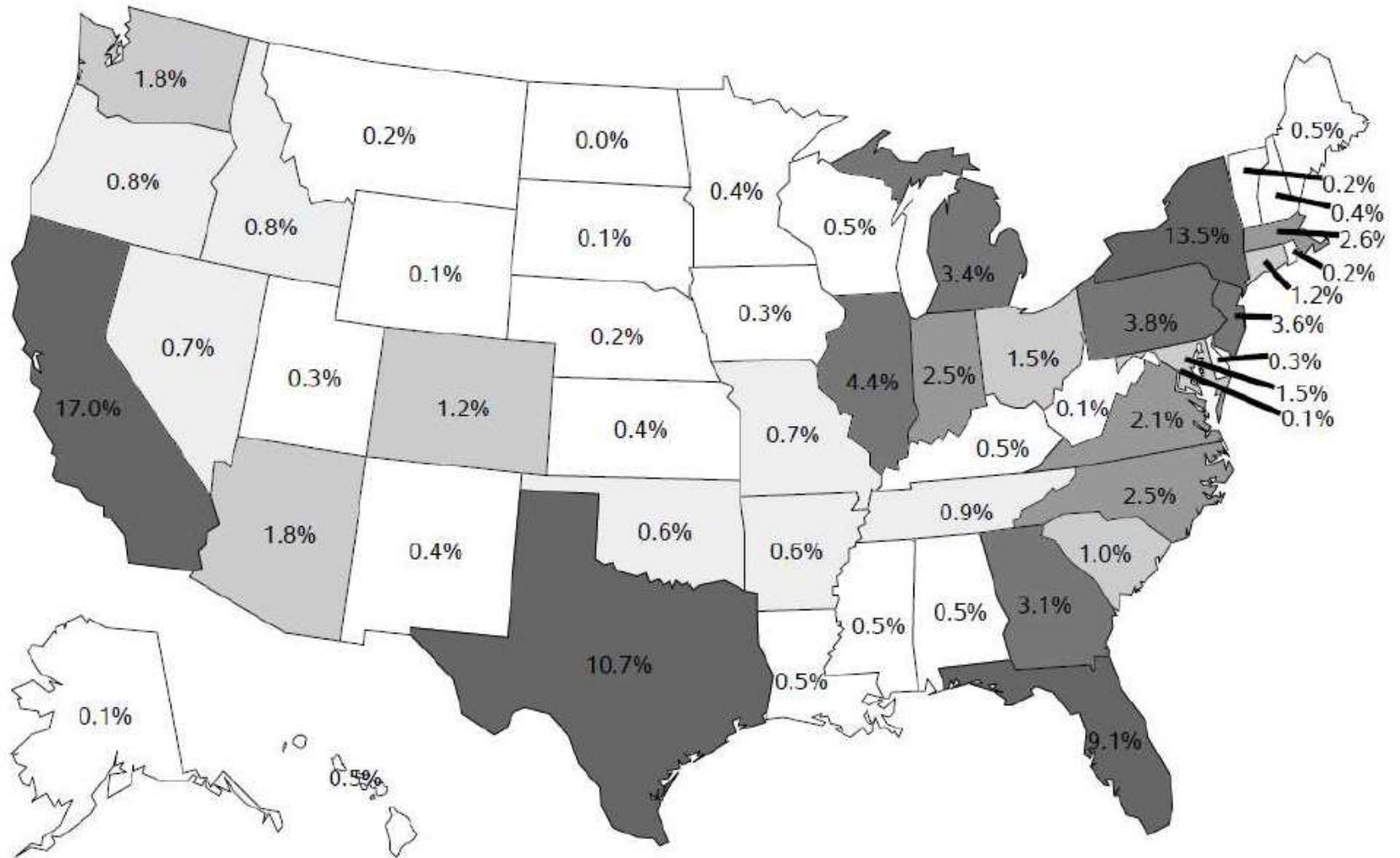


Table 2. Impacts of virtual advising

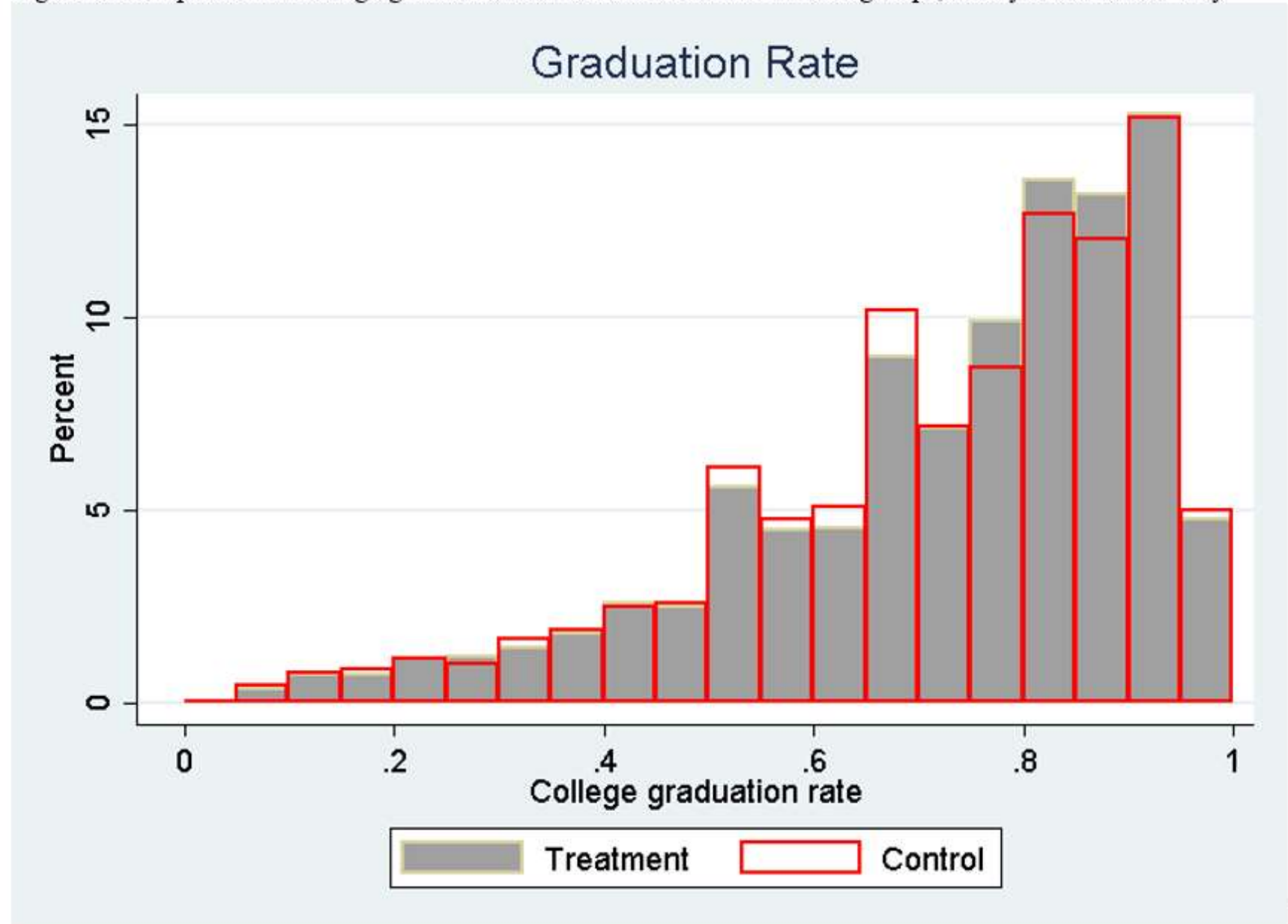
	(1)	(2)	(3)	(4)	(5)	(6)
	SAT score sends		Attendance (NSC data)		College characteristics	
	Non- CollegePoint colleges	CollegePoint colleges	Any	CollegePoint college	Graduation rate	Net price: \$30-48K
	1st-stage					
Reduced form	0.001 (0.034)	0.312** (0.086)	0.003 (0.006)	0.026** (0.009)	0.008* (0.004)	-30.854 (122.316)
IV	0.434** (0.008)	0.002 (0.077)	0.007 (0.014)	0.060** (0.021)	0.017* (0.008)	-66.739 (272.439)
		6.0	87.3%	50.0%	72.1%	\$12,391

Notes: + p<0.10, \* p<0.05, \*\* p<0.01. All estimates compare the randomized offer of virtual advising to control group students not offered virtual advising (N=16,256).

- No impacts on overall college attendance
- Shifts into CollegePoint colleges
- Hard to detect impacts on college characteristics

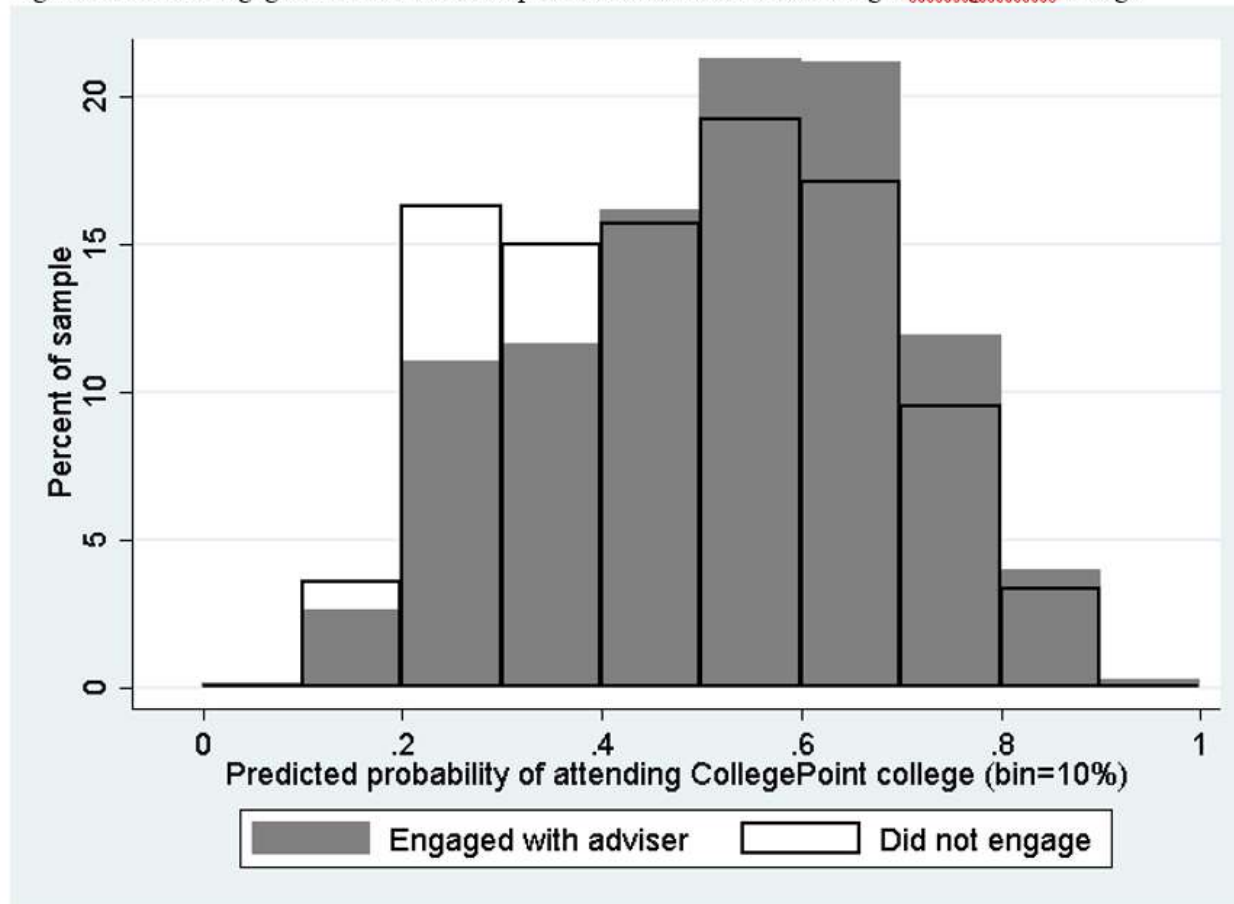


Figure 1. Comparison of college graduation rate for treatment and control groups, four-year enrollees only



Notes. Results from a histogram comparing the full distribution of treatment and control groups for all college attendees only. Bins are 5 percentage points.

Figure 2. Adviser engagement rates based on predicted likelihood of attending a CollegePoint college



Notes. Predicted probabilities derive from a logistic regression using control group students that controlled for: student ethnicity; gender; parental education; school urbanicity; whether they took the SAT zero, one, or two or more times; a cubic of initial SAT math and verbal scores, school-level free and reduced price lunch, and school size.

- Higher engagement rates among those predisposed to attend CollegePoint colleges





Table 3. Impacts of random assignment to same sex or ethnicity adviser, intent-to-treat estimates

	(1)	(2)	(3)	(4)	(6)
		SAT score sends		Attendance (NSC data)	
	Engagement	Non-CollegePoint colleges	CollegePoint colleges	Any	CollegePoint college
<i>Adviser matching on ethnicity</i>					
Same ethnicity adviser	-0.020 (0.013)	-0.078+ (0.046)	0.188 (0.118)	0.006 (0.008)	0.009 (0.012)
White and same ethnicity adviser	-0.010 (0.016)	-0.099 (0.061)	-0.232 (0.155)	-0.008 (0.011)	-0.019 (0.016)
Non-white and same ethnicity adviser	-0.033+ (0.019)	-0.050 (0.072)	0.775** (0.184)	0.026* (0.013)	0.047* (0.019)
Control group mean	46.3%	1.7	5.1	88.1%	56.0%

Notes: +  $p < 0.10$ , \*  $p < 0.05$ , \*\*  $p < 0.01$ . All estimates compare the randomized offer of virtual advising to a same sex or ethnicity adviser, restricted to only students in the treatment sample. Pooled regressions include student gender and ethnicity dummies.

- Non-white students randomly assigned to non-white advisers showed larger shifts
  - Small numbers and speculative



# Conclusion

- Increased enrollment in high grad rate colleges
  - How strongly should organizations advocate?
- Efforts made to lower engagement barriers: opt-out; existing CB communication channels; data-sharing to reach students earlier
- Did not find “academically isolated” students were significantly impacted
- Virtual advising may be a scalable solution but more work is needed to develop messages that target and motivate students