

Structurally Racist Inputs in Student List Products

Introduction and background. Colleges and universities (herein universities) identify prospective students by purchasing “student lists” from College Board, ACT, and other vendors. A Student list contains the contact information of prospective students who meet the search filter criteria (e.g., test score range, GPA, zip codes) specified by the university. Purchased lists are a necessary input for undergraduate recruiting interventions, which target individual prospects by mail, email, and on social media. Recent research by Howell, Hurwitz, Mabel, & Smith (2021) suggests that student lists are surprisingly important for the college access outcomes of millions of students each year. Figure 1 reproduces the main results. After controlling for covariates, the authors found that students who opted into College Board Student Search Service – allowing accredited institutions to “licence” their contact information – were 25% more likely to enroll in a 4-year college than students who opted out. Furthermore, the results were stronger for students who identified as Black, LatinX, and first-generation.

However, a series of recently published reports by Author (XXXXa, XXXXb, XXXXc) argue that student list products systematically exclude underrepresented student populations in two ways. The first source of exclusion is which prospective students are in the underlying database. Historically, student list products sold by College Board and ACT exclude non test-takers, but rates of test-taking differ by race and class. Second, several “search filters” (e.g., zip code, AP score) used to control which prospect profiles are purchased facilitate the efficient exclusion of students from communities of color and low-income communities.

This paper empirically examines the exclusionary effects of student list products. We ask, what is the relationship between student list search filters and the characteristics of students who are included vs. excluded in student lists purchased from College Board? We reconstruct College Board student list products using nationally representative data on high school students from the High School Longitudinal Study of 2009 (HSL:09). We create measures for each search filter and measures that identify whether students are included in the underlying student list database. Empirical analyses investigate the relationship between particular filters and combinations of filters – our “X” variables of interest – and the racial and socioeconomic composition of students who are included vs. excluded from purchases that utilize these filters.

Literature Review. Most scholarship at the nexus of college access and enrollment management focuses on which applicants are admitted or financial aid leveraging to convert admits to enrolled students. However, a growing literature within the sociology of education examines the relationship between recruiting and college access. For example, Holland (2019) analyzes recruiting from the perspective of high school students. Stevens (2007) analyzes recruiting from the perspective of a selective liberal arts college. Cottom (2017) analyzes

the recruiting behavior of for-profit universities. Authors (XXXXD, XXXXE) investigated off-campus recruiting visits by public research universities. All of these studies assume that recruiting is something done by individual colleges and universities.

By contrast, Authors (XXXXA) argue that university enrollment management behaviors are increasingly structured by products purchased from third-party software and consulting firms. Historically, the market for student list data has been dominated by College Board and ACT, which capitalized on their bank of test-takers. However, advances and technology and the test-optional movement have created opportunities for edtech software and consulting firms to become suppliers of student list data.

Author (XXXXB) issued public records requests to public universities in order to collect data about student list purchases (the filters selected in purchases, and the prospects associated with each purchase). Empirically, Authors (XXXB) showed that student list filters that utilized particular combinations of search filters were associated with profound racial and socioeconomic exclusion. Because of data limitations, Authors (XXXB) cannot determine which particular filters and filter thresholds are driving the exclusion. This paper overcomes this limitation, by recreating the College Board student list product using a nationally representative sample of high school students and then simulating who is included/excluded as filters and filter thresholds are changed.

Theory. We develop a conceptual framework from scholarship at the nexus of sociology of race and digital platforms (Burrell & Fourcade, 2021; Cottom, 2020; Hirschman & Bosk, 2020; Hirschman & Garbes, 2019; Norris, 2021; Ray, 2019). Algorithms are instructions written in code (Burrell & Fourcade, 2021). Student list products are algorithmic selection devices that – similar to Google Ads or Facebook – allow advertisers to control the prospective customers through the use of search filters. Structural racism is “systematic racial bias embedded in the ‘normal’ functions of laws and social relations” (Tiako, South, & Ray, 2021, p. 1143), whereby processes viewed as neutral or common-sense systematically advantage dominant groups. Structurally racist inputs are determinants of a selection device that are correlated with race because non-white people have been historically excluded from the input (Norris, 2021). After establishing foundational concepts, we conceptualize several “geographic” and “academic” search filters as structurally racist inputs. For example, prospects may be filtered by zip code, but zip codes are correlated with race because of residential segregation (Benjamin, 2019). Next, we develop testable propositions about the relationship between specific filters – and combinations of filters – and racial exclusion from purchased lists.

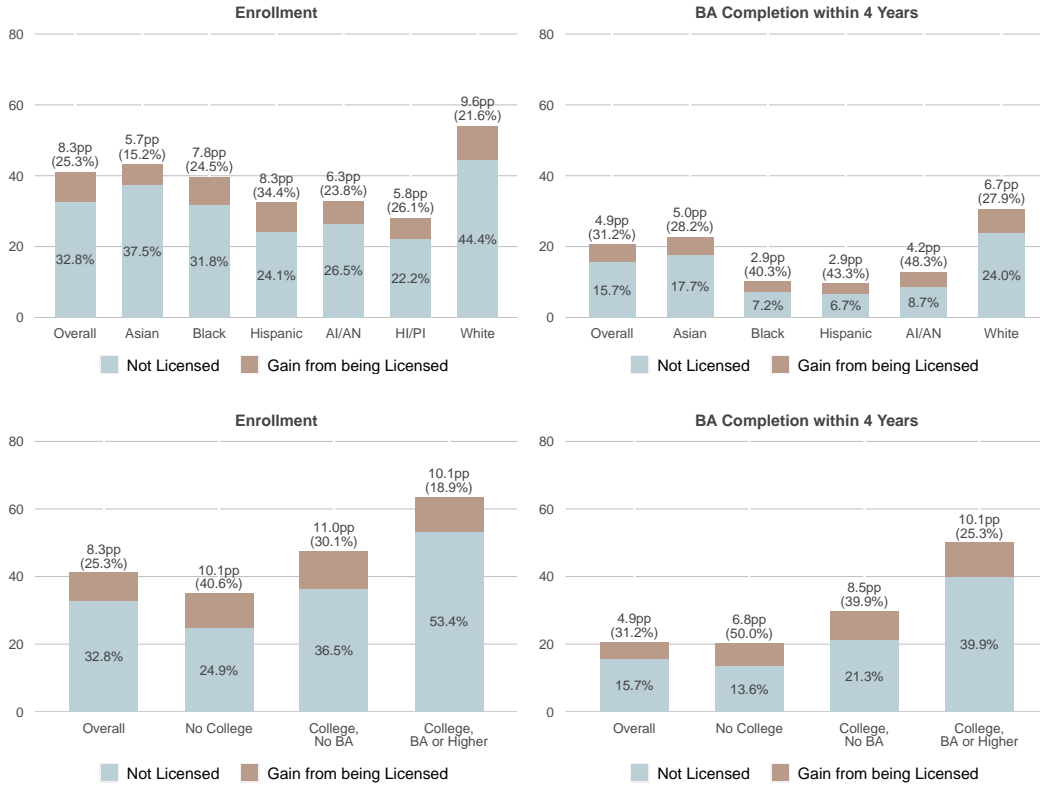
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Methods. text

Analyses and progress to date. text

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Figure 1: Student Search Service and four-year college enrollment/completion



Notes: AI/AN = American Indian or Alaska Native. HI/PI = Hawaiian or Pacific Islander. Sample for enrollment outcomes is all SAT takers in the 2015–2018 high school graduation cohorts. Sample for completion outcomes is students in the 2015–2016 cohorts. Results are estimated from regressions that include student-level controls for: sex, race/ethnicity, SAT score, parental education level, last Student Search Service opt-in status, graduation cohort, and high school fixed effects. All differences between licensed versus non-licensed students are statistically significant at the 1% level.

1 References

- Benjamin, R. (2019). *Race after technology: Abolitionist tools for the new jim code*. Medford, MA: Polity.
- Burrell, J., & Fourcade, M. (2021). The society of algorithms. *Annual Review of Sociology*, 47, 213–237. Journal Article. <https://doi.org/10.1146/annurev-soc-090820-020800>
- Cottom, T. M. (2017). *Lower ed: The troubling rise of for-profit colleges in the new economy*. New Press, The.
- Cottom, T. M. (2020). Where platform capitalism and racial capitalism meet: The sociology of race and racism in the digital society. *Sociology of Race and Ethnicity*, 6(4), 441–449. <https://doi.org/10.1177/2332649220949473>
- Hirschman, D., & Bosk, E. A. (2020). Standardizing biases: Selection devices and the quantification of race. *Sociology of Race and Ethnicity*, 6(3), 348–364. <https://doi.org/10.1177/2332649219844797>

- Hirschman, D., & Garbes, L. (2019). Toward an economic sociology of race. *Socio-Economic Review*, 19(3), 1171–1199. <https://doi.org/10.1093/ser/mwz054>
- Holland, M. M. (2019). *Divergent paths to college: Race, class, and inequality in high schools*. Rutgers University Press. <https://doi.org/10.36019/9780813590288>
- Howell, J., Hurwitz, M. H., Mabel, Z., & Smith, J. (2021). *Participation in student search service is associated with higher college enrollment and completion*. College Board. Retrieved from <https://cbsearch.collegeboard.org/pdf/college-outreach-and-student-outcomes.pdf>
- Norris, D. (2021). Embedding racism: City government credit ratings and the institutionalization of race in markets. *Social Problems*. <https://doi.org/10.1093/socpro/spab066>
- Ray, V. (2019). A theory of racialized organizations. *American Sociological Review*, 84(1), 26–53. <https://doi.org/10.1177/0003122418822335>
- Stevens, M. L. (2007). *Creating a class: College admissions and the education of elites* (p. 308). Cambridge, MA: Harvard University Press.
- Tiako, M. J. N., South, E., & Ray, V. (2021). Medical schools as racialized organizations: A primer. *Annals of Internal Medicine*, 174(8), 1143–1144. <https://doi.org/10.7326/m21-0369> %m 34058105