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# Understanding Variation in Post-College Earnings: Evidence from the U.S. Department of Education's College Scorecard

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#### Abstract

Using the detailed college level data from the College Scorecard on students' post-college earnings from the near universe of four-year colleges, we assess the usefulness of going beyond comparing colleges based only on median earnings and analyze the descriptive relationship between college selectivity and earnings outcomes and how this relationship may differ by student sex and field of study. We show that considering the full distribution of earnings outcomes can greatly improve our understanding of college level earnings dynamics. Using different points in the distribution other than the median would markedly change how colleges rank on these metrics, largely due to widely overlapping earnings distributions across colleges. On the link between college selectivity and earnings, we find that there is virtually no correlation among less selective colleges but a strong relationship among more selective colleges. Earnings are significantly higher at colleges with lower acceptance rates, especially at the high end of the earnings distribution, and the gender earnings gap is also larger at these colleges. We also show that the relationship between selectivity and earnings varies dramatically by field of study, with some fields showing a large return to college selectivity while others revealing none at all.

#### 1. Introduction

Many college rankings systems—such as from the US News and World Report, the Wall Street Journal, and Forbes—have positioned colleges within a diverse ecosystem for many years using a set of metrics including graduation rates, faculty salaries, and average instructional expenditures per student. However, as more Americans have questioned in recent years whether investing in a college education is worthwhile (Belkin, 2024; Tough, 2023), there has been an increased focus on the outcomes of students after leaving college, especially earnings, and comparing these outcomes across colleges.

In the fall of 2015, the U.S. Department of Education released the College Scorecard—an interactive tool that features a college's graduation rate, annual cost of attendance, and median earnings (of federal student aid recipients) 10 years after entering college. The latter element is the most novel, as no such official measure of post-college earnings sourced from administrative data (in this case, from the Department of Treasury) was available up to this point. These earnings data have grown in their traction since their release as the metrics have gradually been folded into rankings, such as those produced by the *Wall Street Journal* and *US News and World Report*.

While the College Scorecard's consumer-facing search tool displays median earnings data for each college, the College Scorecard houses much more detailed college level earnings data that is publicly available on its website and updated semi-regularly. These enhanced data include the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> earnings percentiles (and the 10<sup>th</sup> and 90<sup>th</sup> earnings percentiles for earlier data releases) for certain cohorts of students 6, 8, and 10 years after entering college. These earnings data also include median earnings by sex,

and in separately released data files, median earnings by field of study. Also, while the College Scorecard's search tool shows median earnings for the cohorts in the most recent data release, all prior data releases are also available on the website which provides the ability to track college level earnings over time both within and across different entry cohorts.

In this paper, we harness the detailed data available through the College Scorecard to gain a better understanding about how post-college earnings vary across colleges. We broadly take our analyses in two directions. First, we assess what insights can be learned about college level outcomes beyond median earnings from a single cohort of students, which is what is displayed on the College Scorecard's search tool.<sup>1</sup> More specifically, we explore how our perceptions of colleges might change when considering the additional data on different earnings percentiles, as well as the longitudinal earnings data across colleges' entry cohorts from prior College Scorecard data releases. Second, we analyze the relationship between college selectivity and post-college earnings. These analyses are inspired by the findings of Chetty, Deming, and Friedman (2023) who show that elite colleges disproportionately propel students into the highest paying jobs. Specifically, we explore the relationship between selectivity and earnings among nearly all four-year colleges in the U.S., how this relationship may vary with different earnings percentiles, and how the relationship differs by student sex and field of study.

<sup>&</sup>lt;sup>1</sup> Technically, the College Scorecard releases earnings data based on "pooled" entry cohorts, combining data from two consecutive college entry cohorts. But the College Scorecard's search tool does show median earnings data for just one pooled entry cohort.

Our first set of analyses has several main findings: 1) A college's earnings rank order is highly sensitive to the earnings percentile used to create the ranking. Of the roughly 1,400 sampled colleges, nearly 40 percent would shift by more than 150 places in rank order if colleges were sorted by the 90<sup>th</sup> percentile earnings rather than the median earnings. 2) Despite the fact that the colleges differ markedly in median earnings, there is substantial overlap across colleges in their full earnings distribution, even between colleges with large gaps in median earnings. 3) There is high volatility over time in each of the earnings metrics, particularly for smaller colleges. 4) Post-college earnings vary over time across different college entry cohorts, with apparent sensitivity to the economic conditions when students enter the labor market.

Our analyses of the link between college selectivity and post-college earnings reveal a complex relationship: 1) Among colleges with acceptance rates greater than 40 percent, there exists virtually no relationship between selectivity and earnings, regardless of the earnings metric. But, among more selective colleges, there is a steep relationship between earnings and selectivity. This is true regardless of the earnings metric, but the relationship is especially strong for 75<sup>th</sup> and 90<sup>th</sup> percentile earnings. 2) Median earnings for men are about \$5,000 more than women 6 years after college entry, which grows to about \$9,000 at 10 years after college entry. This disparity is consistent across colleges with acceptance rates greater than 40 percent but becomes larger among the more selective colleges. 3) There is substantial variation in the relationship between selectivity and median earnings across fields of study. Some fields—such as Social Work and Registered Nursing—show virtually no relationship between college selectivity and median earnings. While other

fields—such as Computer and Information Sciences and Economics—show a strong relationship between college selectivity and median earnings.

Our results have several implications and suggestions to improve the College Scorecard's consumer-facing college search tool. Overall, there is a wealth of information available in the data that the College Scorecard releases on its website that is both not reported on the Scorecard's search tool and could be useful for students to digest when making comparisons between colleges in terms of post-college earnings outcomes. For instance, the College Scorecard should consider ways to 1) allow students to see more points in the earnings distribution to facilitate college comparisons beyond median earnings <sup>2</sup>, 2) allow students to see how college level earnings have trended over time, both within and across entry cohorts, and 3) allow students to see how earnings differ between men and women.

This paper makes contributions to a few different strands of literature. First, we add to a literature on the College Scorecard itself. Hurwitz and Smith (2018) show that the introduction of the tool had little effect on college enrollment. Most similar to our paper is Mabel, Libassi, and Hurwitz (2020) who also highlight how consumers can easily draw misleading conclusions when comparing colleges based on the information presented on the College Scorecard's search tool. We update and significantly expand on Mabel et al. (2020) with more recent data and a novel set of unaddressed research questions, incorporating past data releases for more comprehensive analyses of earnings outcomes

<sup>&</sup>lt;sup>2</sup> SAT scores (for example) are often reported as an interquartile range in IPEDS and rankings systems like US *News and World Report*.

over time, and analyzing the relationship between college selectivity and earnings. We also add to a growing body of research that uses College Scorecard data (see e.g., Elu et al., 2019; Boland, Gasman, Samayoa & Bennett, 2021; Carney, 2023; Foote, 2022; and Bettinger and Fidjeland, 2024).

Second, we contribute to the literature on the relationship between college selectivity and students' earnings outcomes. Lovenheim and Smith (2023) review this vast body of research, concluding that college selectivity positively impacts earnings with few exceptions.<sup>3</sup> We flesh out this relationship descriptively using earnings data based on administrative sources for the near universe of four-year colleges, with a novel focus on how the relationship varies at different points in the earnings distribution. We also expand on the literature examining how the relationship between college selectivity and earnings varies by gender or sex (Ma and Savas, 2014; Witteveen and Attewell, 2017; Quadlin, Cohen, and VanHeuvelen, 2021; and Ge, Isaac, and Miller, 2022) and by field of study or college major (Ma and Savas, 2014; Eide, Hilmer, and Showalter, 2016; Quadlin, Cohen, and VanHeuvelen, 2021). Some of our analyses are also related to the literature on the returns to field of study more generally (see e.g., Kirkeboen, Leuven, and Mogstad, 2016; Andrews, Imberman, and Lovenheim, 2017; Bleemer and Mehta, 2022; and Andrews, Imberman, Lovenheim, and Stange, forthcoming).

<sup>&</sup>lt;sup>3</sup> Some examples of papers in this literature include Dale and Krueger (2002), Black and Smith (2004), Black and Smith (2006), Hoekstra (2009), Smith (2013), Zimmerman (2014), Cohodes and Goodman (2014), Andrews, Li, and Lovenheim (2016), Goodman, Hurwitz, and Smith (2017), Smith, Goodman, and Hurwitz (2020), Black, Denning, and Rothstein (2023), Bleemer (2022), Mountjoy and Hickman (2021), and Chetty, Deming, and Friedman (2023).

#### 2. Data and sample description

#### 2.1. Data description

We use publicly available data from the U.S. Department of Education's College Scorecard.<sup>4</sup> The College Scorecard is a project "designed to increase transparency, putting the power in the hands of students and families to compare how well individual postsecondary institutions are preparing their students to be successful" (U.S. Department of Education, 2024). The initiative includes a consumer-facing website (https://collegescorecard.ed.gov/) where students can compare institutions, and fields of study within institutions, on graduation rates, cost, median earnings, and median student loan debt. The College Scorecard is made possible by a unique linking of data sources from federal reporting from institutions, federal student aid, and earnings data from deidentified tax records.

The College Scorecard semi-regularly releases data files with 1) institution level data of certain cohorts of students 6, 8, and 10 years after entering college, and 2) institution by field of study level data of certain cohorts of students 1, 4, and 5 years after graduating college. We primarily make use of the "Most Recent" data files of the June 13, 2024 data release, which is the most recent update of the College Scorecard data at the time this paper was written. For some analyses, however, we additionally make use of the prior releases of the institution level data files to capture insights about earnings over time and across cohorts. Our focus is on the aggregate level earnings information at the institution and institution by field of study levels.

<sup>&</sup>lt;sup>4</sup> All data used in this paper can be downloaded here: <u>https://collegescorecard.ed.gov/data/</u>.

A noteworthy limitation of the earnings data reported in the College Scorecard is that only students who received Title IV funding are included in the aggregate earnings calculations, so the earnings metrics may not be representative of colleges with a low proportion of Title IV-eligible students. Foote (2022) finds that longer-run earnings for the Title IV-receiving population are significantly lower than the full population of college enrollees.<sup>5</sup>

#### 2.2. Sample description

We focus our analysis sample on the 1,513 public and private non-profit four-year colleges in the College Scorecard data.<sup>6</sup> Table 1 displays summary statistics of the distribution of the most recent institution level earnings available, including the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles among students 6, 8, and 10 years after entering college. Since the College Scorecard has not released data with the 10<sup>th</sup> and 90<sup>th</sup> percentiles in several years, the 10<sup>th</sup> and 90<sup>th</sup> percentiles come from earlier entry cohorts than the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> percentiles. For example, the most recent data on the 10<sup>th</sup> and 90<sup>th</sup> percentiles for students 10 years after college entry come from the 2003-04 and 2004-05 entry cohorts, while the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> percentiles come from the 2009-10 and 2010-11 entry cohorts.

<sup>&</sup>lt;sup>5</sup> Title IV funding includes Pell grants and federal loans like the Stafford.

<sup>&</sup>lt;sup>6</sup> Specifically, we exclude for-profit colleges and colleges that primarily grant degrees/credentials lower than the bachelor's degree level as indicated by Carnegie classifications.

	Weighted	Standard	Number of	
	Mean	deviation	institutions	Pooled entry cohort
	(1)	(2)	(3)	(4)
6 years after college entry				
10th percentile earnings	\$12,600	\$3,801	1,394	2007-08 & 2008-09
25th percentile earnings	\$31,560	\$8,761	1,463	2013-14 & 2014-15
50th percentile earnings	\$50,001	\$10,796	1,471	2013-14 & 2014-15
75th percentile earnings	\$70,122	\$16,619	1,471	2013-14 & 2014-15
90th percentile earnings	\$85,577	\$21,403	1,394	2007-08 & 2008-09
8 years after college entry				
10th percentile earnings	\$14,831	\$4,666	1,389	2005-06 & 2006-07
25th percentile earnings	\$35,974	\$9,686	1,460	2011-12 & 2012-13
50th percentile earnings	\$58,042	\$13,434	1,416	2011-12 & 2012-13
75th percentile earnings	\$81,636	\$19,681	1,468	2011-12 & 2012-13
90th percentile earnings	\$100,616	\$26,271	1,389	2005-06 & 2006-07
10 years after college entry				
10th percentile earnings	\$16,061	\$5,172	1,387	2003-04 & 2004-05
25th percentile earnings	\$39,186	\$10,378	1,457	2009-10 & 2010-11
50th percentile earnings	\$65,496	\$16,560	1,411	2009-10 & 2010-11
75th percentile earnings	\$89,788	\$22,273	1,462	2009-10 & 2010-11
90th percentile earnings	\$113,050	\$28,765	1,387	2003-04 & 2004-05

#### Table 1: Summary statistics of institution level earnings data

*Notes*: The above table displays averages of institution level earnings percentiles, weighted by the number of people in the earnings cohort. All earnings data come from the most recently released variables from the College Scorecard. All earnings percentiles are inflation adjusted into real 2022 dollars.

Table 2 displays summary statistics of the College Scorecard's institution by field of study level median earnings data, focusing on the top 20 fields of study in terms of the number of students in those fields. In contrast to the institution level data, the median earnings are calculated among cohorts of graduating students. The most recent median earnings data for students 5 years after graduation come from the 2014-15 and 2015-16 college graduation cohorts, observed in 2020 and 2021 calendar years. The College Scorecard suppresses earnings data that are based on relatively small number of people for privacy reasons. At the institution by field of study level, privacy suppression is fairly common, which partially accounts for the fewer number of institutions where data are

available in the institution by field of study level data compared to the institution level data.

Table 2: Summary statistics of median earnings 5 years after graduation for top	թ <b>20</b>
fields of study	

	Weighted Mean	Standard deviation	Number of
	(1)	(2)	(3)
	(1)	(2)	(0)
Accounting and Related Services.	\$75,747	\$15,673	637
Biology, General.	\$61,583	\$9,747	809
Business Administration, Management and Operations.	\$68,360	\$13,948	961
Communication and Media Studies.	\$57,046	\$10,273	574
Computer and Information Sciences, General.	\$99,515	\$28,345	314
Criminal Justice and Corrections.	\$54,733	\$9,011	513
Economics.	\$88,269	\$22,181	329
English Language and Literature, General.	\$49,297	\$8,058	534
Finance and Financial Management Services.	\$86,695	\$21,008	367
Health and Physical Education/Fitness.	\$55,793	\$8,562	515
Liberal Arts and Sciences, General Studies and Humanities.	\$51,024	\$9,260	383
Marketing.	\$69,742	\$12,352	415
Mechanical Engineering.	\$93,201	\$7,594	275
Multi/Interdisciplinary Studies, Other.	\$56,453	\$14,097	179
Political Science and Government.	\$65,842	\$12,064	483
Psychology, General.	\$50,987	\$7,446	966
Registered Nursing, Nursing Administration, Nursing Research	\$85,763	\$12,998	700
and Clinical Nursing.			
Social Work.	\$48,923	\$7,723	390
Sociology.	\$52,766	\$8,201	444
Teacher Education and Professional Development, Specific Levels and Methods.	\$47,094	\$6,570	613

*Notes:* The above table displays averages institution level earnings 5 years after graduation, weighted by the number of people in the earnings cohort, for the top 20 fields of study in terms of number of students in the field. All earnings data come from the most recently released variables from the College Scorecard. All earnings percentiles are inflation adjusted into real 2022 dollars. Earnings data come from the 2014-15 and 2015-16 college graduation cohorts, observed in 2020 and 2021 calendar years, respectively.

# 3. Analyses

3.1. Sensitivity of college rankings to the choice of earnings metric

The College Scorecard's consumer facing search tool encourages students to

compare colleges based on their student outcomes. In terms of earnings outcomes,

however, the search tool only allows students to see the 50<sup>th</sup> percentile for each college. Comparing colleges based only on median earnings may be misleading if ordinal rankings of colleges are sensitive to the earnings metric used to create the ranking. This is particularly true for smaller colleges with fewer students receiving federal student aid.

We use the additional institution level earnings percentiles reported in the College Scorecard data to assess the extent to which college rankings would vary if they were ranked using a different metric than the median earnings. We first compute the ordinal ranking of each college based on the 5 different earnings percentiles. Then in Figure 1, we separately plot the relationship between the college rankings using the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles compared to the ranking using the 50<sup>th</sup> percentile using the metrics for 10 years after college entry. Similar figures using the metrics for 6 and 8 years after college entry are in Appendix Figures A1 and A2.

We find that a college's earnings rank order is highly sensitive to the metric used. Of the 1,400 sampled colleges, nearly 40 percent would shift by more than 150 places in rank order if colleges were sorted by the 90<sup>th</sup> percentile earnings rather than the median earnings, and more than 200 colleges would shift by more than 300 places. Differences in the rank order of colleges are even larger when comparing the median and the 10<sup>th</sup> percentile earnings, with around half of colleges shifting by more than 150 places in rank order and more than 25 percent shifting more than 300 places. While there is less of a difference when comparing the rankings using the median and the rankings using the 25<sup>th</sup> and 75<sup>th</sup> percentiles, nearly a quarter of colleges would still shift by more than 150 places if

sorted by the 25<sup>th</sup> percentile earnings, and about one third would shift by more than 75 places in rank order if sorted by the 75<sup>th</sup> percentile earnings.



Figure 1: College rank difference by earnings metric (10 years after college entry)

Rank by Median Earnings

*Notes*: The above figure shows scatterplots of college ranks using the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles on the vertical axes and college rank using median earnings on the horizontal axis. The color of the dots represents the magnitude of the difference between the ranks. All earnings data come from the most recently released variables from the College Scorecard for earnings 10 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.

# 3.2. Overlap of college earnings distributions

It is useful to have median earnings to compare the post-college outcomes of

students who enroll in different colleges. On its own, however, the median lacks

information about the full distribution of earnings for each college and cannot provide

insights about what relatively high or low earners look like at different colleges, or how relatively high earners from one college may compare to relatively low earners from another college. In Figure 2, we use the most recently released earnings data 10 years after college entry and group colleges by median earnings and then plot the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>,75<sup>th</sup> and 90<sup>th</sup> percentiles for each group to assess the extent of overlap there is among the earnings distributions of colleges with different median earnings.<sup>7</sup> Similar figures using the earnings data for 6 and 8 years after college entry are shown in Appendix Figures A3 and A4.

Figure 2: Full earnings distributions by colleges' median earnings (10 years after college entry)



*Notes*: The above figure plots the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> earnings percentiles for different groups of colleges defined by their position in the distribution of median earnings. All earnings data come from the most recently released variables from the College Scorecard for earnings 10 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.

<sup>&</sup>lt;sup>7</sup> Since the data for the 10<sup>th</sup> and 90<sup>th</sup> earnings percentiles come from different pooled entry cohorts than the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> earnings percentiles, we show in Appendix Figure A5 the same figure using the most recent College Scorecard data release where all five percentiles were reported for the same pooled entry cohorts. The results and takeaways remain the same when using these consistent pooled entry cohorts.

We find that colleges with higher median earnings have wider distributions of earnings outcomes leading to substantial overlap in the full earnings distributions across colleges, even among colleges with large differences in median earnings. For instance, at 6, 8, and 10 years after college entry, students at the 75<sup>th</sup> percentile from colleges with the lowest median earnings have substantially higher earnings than students at the 10<sup>th</sup> percentile from colleges at the 99<sup>th</sup> percentile of median earnings. Moreover, students at the 75<sup>th</sup> earnings percentile from colleges near the middle of the median earnings distribution often have higher earnings than students at the 25<sup>th</sup> percentile from colleges with the highest median earnings.

#### 3.3. Variation in college earnings distributions across cohorts

The College Scorecard's consumer facing college search tool only displays the most recently released median earnings data for each college. The College Scorecard pools together 2 consecutive entry cohorts when releasing institution level earnings data to "reduce year-over-year variability" (U.S. Department of Education, 2024). The College Scorecard also suppresses particularly "noisy" observations to "ensure fitness-for-use of the data" (U.S. Department of Education, 2024). Despite these efforts, there may still be year-over-year (or, alternatively, pooled cohort-over-pooled cohort) variation in colleges' earnings metrics released by the College Scorecard, especially for colleges with smaller cohorts. Such variation could be impactful for students using the College Scorecard's search tool to compare colleges.

To assess the over-time variability in institutions' earnings metrics, we combine the College Scorecard's most recent data release with all the prior data releases that include

institution level earnings data, creating an institution by pooled entry cohort level panel dataset. We then compute the standard deviation across cohorts for the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles for each college and plot the relationship between these withininstitution standard deviations with the average cohort size of the college. Figure 3 shows these relationships using the earnings data measure 10 years after college entry. Similar figures using the earnings data measured 6 and 8 years after college entry are shown in Appendix Figures A6 and A7.



Figure 3: Earnings volatility by college cohort size (10 years after college entry)

*Notes*: The above figure shows scatterplots of colleges' standard deviation in their earnings percentiles over time by the average size of the number of people in the earnings cohort. The figure uses all available data for earnings 10 years after college entry ever released by the College Scorecard for the sampled colleges. The figure excludes a small number of colleges from the analysis sample that do not have at least 3 cohorts with reported data for each earnings percentile. All earnings percentiles are inflation adjusted into real 2022 dollars.

We find large across-cohort variation in each of the earnings metrics, particularly for

smaller colleges. For median earnings, 16 percent of all sampled colleges, and 27 percent

of colleges with an average cohort size less than 500 students, have a standard deviation higher than \$4,000.<sup>8</sup> For 75<sup>th</sup> percentile earnings, 16 percent of all sampled colleges, and 24 percent of colleges with an average cohort size less than 500 students, have a standard deviation higher than \$6,000. For a specific example, one small liberal arts college in the Northwest has an average cohort size of about 200 students and a standard deviation for median earnings of about \$6,500, which is about 10 percent of the median earnings currently reported on the College Scorecard's search tool.

#### <u>3.4. Cohort level post-college earnings trajectories</u>

We next explore how cohort level post-college earnings trace through time (i.e., from 6 years after college entry, to 8 and 10 years after college entry) and how these earnings trajectories have changed across entry cohorts. While the College Scorecard's consumerfacing search tool only displays median earnings 10 years after college entry, the public data releases include additional earnings data 6 and 8 years after college entry. For an individual data release, the earnings data at 6, 8, and 10 years after college entry typically come from different pooled entry cohorts. However, combining all data releases makes it possible to track how earnings have trended for a single pooled cohort through time. There is value in the simplicity of displaying a single earnings metric, but observing how much these earnings metrics grow over time for a given cohort and how these may differ across cohorts may provide useful information as well.

To do this analysis, we again use the complete history of institution level earnings data released by the College Scorecard to create a dataset at the institution by entry cohort

<sup>&</sup>lt;sup>8</sup> 30 percent of sampled colleges have an average earnings cohort size of less than 500 students.

by years since college entry level. We then aggregate across all colleges to get the average of the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> percentiles weighted by the relevant institution cohort size, and plot the earnings trajectory for each pooled entry cohort that has been reported in the College Scorecard. Figure 4 plots these trajectories for the weighted average of median earnings. Appendix Figures A8 and A9 show the same plots for the 25<sup>th</sup> and 75<sup>th</sup> percentile earnings trajectories by entry cohort.



Figure 4: Median earnings trajectories by college entry cohort

*Notes*: The above figure traces average median earnings at 6, 8, and 10 years after college entry for each pooled entry cohort ever reported on by the College Scorecard. Due to an error made by the College Scorecard for the data released with earnings measured in 2018-19 and 2019-20, earnings were reported for 7, 9, and 11 years after college entry. To aggregate across colleges, the averages are weighted by the college-level earnings cohort size. All earnings percentiles are inflation adjusted into real 2022 dollars.

A few things stand out from Figure 4. First, there are some cohorts with gaps in the

earnings data available in the College Scorecard, particularly for some of the more recent

cohorts in the data. Backfilling the cohorts with missing earnings data would be a valuable

addition to provide a more complete picture of how earnings have traced over time both within and across cohorts. Second, Figures 4, A8 and A9 illustrate that earnings of college enrollees can vary over time and can fluctuate with macroeconomic conditions. Conditional on the number of years since entering college, earnings of the college enrollees covered by the College Scorecard dropped during the Great Recession but appear to have rebounded to above pre-Great Recession levels in the most recent data. Looking at earnings 8 years after college entry, for example, the 1997-1998 entry cohorts (measured in 2005-2006) had higher median earnings than all subsequent entry cohorts reported in the data until the 2012-2013 entry cohorts (measured in 2020-2021). The 2001-2002 entry cohorts had the lowest median earnings 8 years after college entry (measured in 2009-2010). Third, these figures highlight that using data from additional entry cohorts, beyond what is most recent available, can be valuable. Moreover, while these figures aggregate across all colleges in our analysis sample, similar figures could be made separately for each college to provide institution-specific context on trends in earnings trajectories.

#### 3.5. The relationship between college selectivity and earnings

Recent research by Chetty, Deming, and Friedman (2023) finds that elite colleges disproportionately propel students into the highest paying jobs. Inspired by these findings, we use the College Scorecard data to explore the descriptive relationship between a college's admissions selectivity and post-college earnings outcomes. In Figure 5, we plot the relationship between colleges' earnings percentiles 10 years after college entry and

colleges' admissions rate.<sup>9</sup> We show similar figures for earnings 6 and 8 years after college entry in Appendix Figures A10 and A11.



Figure 5: Earnings by college selectivity (10 years after college entry)

Admit Rate

*Notes*: The above figure shows scatterplots of each of the college level earnings percentiles by their admit rate. All earnings data come from the most recently released variables from the College Scorecard for earnings 10 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.

We find that the relationship between selectivity and earnings is not straightforward.

Among colleges with acceptance rates of between roughly 40 to 90 percent, there exists

virtually no relationship between selectivity and earnings. This is true regardless of whether

we consider median earnings or at other points in the earnings distribution. By contrast,

among more selective colleges, there is a steep relationship between earnings and

<sup>&</sup>lt;sup>9</sup> We find similar results when we plot the relationship between colleges' earnings percentiles and colleges' median SAT scores instead of admissions rates.

selectivity. The median earnings of colleges that accept less than 10 percent of applicants is nearly twice as large as the median earnings of colleges accepting 40 percent of applicants. This contrast is even sharper when considering the 75<sup>th</sup> and 90<sup>th</sup> percentile of earnings. Among the 64 colleges with admit rates of 20 percent or less, 35 percent have 90<sup>th</sup> percentile earnings greater than \$200,000. Meanwhile, there is only one college with an admit rate greater than 20 percent that has 90<sup>th</sup> percentile earnings greater than \$200,000.

We now turn our attention to the insights the College Scorecard can offer into earnings differentials by sex, a topic receiving well-deserved and renewed attention after Claudia Goldin's recently awarded Nobel Prize in economics. Specifically, we add to a vast literature by exploring how earnings differentials by sex relate to colleges' admissions selectivity. To do this, we make use of the median earnings data in the College Scorecard that is reported separately by sex. We calculate the earnings gap between males and females for each college and plot its relationship with the college's admissions rate in Figure 6, using the most recent data available from 10 years after college entry. Appendix Figures A12 and A13 show the same figures using the data from 6 and 8 years after college entry.

# Figure 6: Gender earnings gap by college selectivity (males minus females, 10 years after college entry)



*Notes:* The figure above plots the within-college difference between the median earnings for males and median earnings for females by the college admit rate. All earnings data come from the most recently released variables from the College Scorecard for earnings 10 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.

On average, median earnings for women are about \$5,000 less than men 6 years after college entry, which grows to \$9,000 10 years after college entry. Strikingly, we see similar relationships between college admissions rates and college-specific earnings disparities by sex to the relationships we observe with overall college earnings outcomes in Figure 5. Sex disparities in median earnings are relatively flat across colleges with acceptance rates greater than 40 percent. However, among colleges with acceptance rates less than 40 percent, we generally see larger earnings disparities by sex among colleges that are more selective. For example, among colleges with admit rates of 20 percent or less, median earnings for women are about \$16,000 less than men, on average, 10 years after college entry. The fact that post-college earnings differ by sex and that these differences vary across colleges illustrates that collecting and reporting these data on earnings separately by sex is important and should perhaps take a more prominent role in the College Scorecard's consumer-facing search tool. It also spurs the question: 'Why are gender earnings differentials so much steeper at the nation's most selective colleges?' 3.7. The relationship between college selectivity and earnings by field of study

One of the most consequential decisions students must make in college, perhaps even more consequential than where to go to college, is choosing a major or field to study. Moreover, students considering colleges may be doing so with a specific field or multiple fields in mind. With this in mind, the College Scorecard also releases median earnings data at the institution by field of study (CIP codes) level. We expand our analysis on the relationship between college selectivity and earnings by exploring how this relationship varies across different fields.

We focus this analysis on the top 20 fields of study in the data, as measured by the total number of students in the relevant earnings cohort across colleges for each field. We then plot the relationship between median earnings and college admissions rates separately for each of the top 20 fields. Figure 7 displays these relationships using the earnings data measured 5 years after college graduation, which represents the 2014-15 and 2015-16 pooled earnings cohort. Appendix Figures A14 and A15 shows similar graphs

for earnings data measured 1 and 4 years after graduation, which represent the 2018-19 through 2019-20 and 2014-15 through 2015-16 pooled entry cohorts, respectively.



Figure 7: Median earnings by selectivity for top 20 fields (5 years after graduation)

*Notes*: The figure above shows scatterplots of median earnings by college admit rate, separately by each of the top 20 fields of study. The top 20 fields of study are determined by the total number of people in the earnings cohorts by field of study. All earnings data come from the most recently released variables from the College Scorecard's field of study data file for median earnings 5 years after college graduation. All earnings data are inflation adjusted into real 2022 dollars.

There are a few noteworthy takeaways from these figures. First, we find considerable variation across fields in the relationship between selectivity and median earnings. Some fields—such as Criminal Justice and Corrections, Social Work, Registered Nursing, and Teacher Education—show virtually no relationship between college selectivity and median earnings. Meanwhile, other fields—such as Computer and Information Sciences, Finance, Economics, Political Science & Government, and Marketing—show a strong relationship between college selectivity and median earnings. The relationship between college selectivity and median earnings. Some selectivity and median earnings in Section 3.5, the relationship between college selectivity and median earnings in these fields are particularly strong among the most selective colleges.

Second, the figures illustrate how fields of study have different variance in median earnings across colleges. For instance, conditional on admit rates, median earnings in fields like Sociology and Mechanical Engineering are closely clustered across colleges. However, median earnings in fields like Business Administration, Accounting, and Registered Nursing have a wide range across colleges.

Finally, between higher and lower paying fields of study there are large differences in the number of data points among the most selective colleges. For example, the relatively higher paying Economics field has many data points for colleges with admit rates less than 20 percent, but Teacher Education hardly has any. This is largely a product of substantial privacy suppression for colleges with few graduates in some fields. However, this is also likely due in part to differences in program availability between more and less selective colleges. This finding suggests that the descriptive return to college selectivity is at least

partially related to selective colleges offering more programs in higher paying fields and offering fewer programs in lower paying fields.

#### 4. Discussion and Conclusion

In this paper, we conduct a deep dive into post-college earnings outcomes in the publicly available College Scorecard data to better understand variation across colleges in these aggregate earnings outcomes. Our analyses are shaped by two guiding questions: 1) What insights can be gained by going beyond comparing colleges based on only median earnings of a single pooled entry cohort, as is reported on the College Scorecard's consumer-facing college search tool? 2) What is the relationship between college selectivity and post-college earnings metrics and how does this relationship vary by students' sex and field of study.

Our analyses for the first research question reveal that relying on only median earnings from a single pooled entry cohort can greatly obscure college level earnings dynamics. Ranking colleges by other percentiles in the earnings distribution would be substantially different than a ranking using median earnings. This is partly because there is remarkable overlap in the full earnings distribution across colleges, even between those with large differences in median earnings. As a result, median earnings may distort perceptions of students' expected earnings after graduation. We also find that reported earnings metrics can vary noticeably over time across different college entry cohorts.

On the link between college selectivity and post-college earnings we see a nuanced relationship. The descriptive earnings return to attending a more selective college only appears among colleges with less than a 40 percent acceptance rate, with little to no return

to selectivity among colleges with acceptance rates greater than 40 percent. However, the earnings return to selectivity depends on field of study, with some fields having very little return to attending a more selective college, and others showing a large return to selectivity. Finally, we find that there is an earnings disparity by student sex across the entire range of college acceptance rates, and the disparity grows larger among colleges with acceptance rates less than 40 percent.

Our findings offer several implications and suggestions for the College Scorecard:

- Consider reporting the 10<sup>th</sup> and 90<sup>th</sup> percentiles (in addition to the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> percentiles) in the earnings distribution for each college in the public data releases, which has been discontinued for several years. All earnings percentiles should also be salient in the consumer-facing college search tool.
- 2) Consider combining earnings data from additional cohorts for relatively small colleges (i.e. with fewer than 500 students in the earnings cohort) to improve the accuracy of the reported percentiles and reduce year-over-year volatility.
- 3) Consider backfilling the entry cohorts with missing earnings data to provide a more complete picture of how earnings have traced over time both within and across cohorts and consider showing these trends in the consumer-facing college search tool.
- 4) Consider displaying how earnings differ between men and women on the consumerfacing college search tool.

Overall, there is a wealth of information available in the data that the College Scorecard releases on its website that is not reported on the Scorecard's consumer-facing search

tool. Much of this additional information could be useful for students to digest when making comparisons between college in terms of post-college earnings outcomes.

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# **Appendix Figures**



### Figure A1: College rank difference by earnings metric (6 years after college entry)

# Rank by Median Earnings

*Notes:* The above figure shows scatterplots of college ranks using the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles on the vertical axes and college rank using median earnings on the horizontal axis. The color of the dots represents the magnitude of the difference between the ranks. All earnings data come from the most recently released variables from the College Scorecard for earnings 6 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A2: College rank difference by earnings metric (8 years after college entry)

Rank by Median Earnings

*Notes:* The above figure shows scatterplots of college ranks using the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles on the vertical axes and college rank using median earnings on the horizontal axis. The color of the dots represents the magnitude of the difference between the ranks. All earnings data come from the most recently released variables from the College Scorecard for earnings 8 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A3: Full earnings distributions by colleges' median earnings (6 years after college entry)

*Notes*: The above figure plots the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> earnings percentiles for different groups of colleges defined by their position in the distribution of median earnings. All earnings data come from the most recently released variables from the College Scorecard for earnings 6 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A4: Full earnings distributions by colleges' median earnings (8 years after college entry)

*Notes*: The above figure plots the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> earnings percentiles for different groups of colleges defined by their position in the distribution of median earnings. All earnings data come from the most recently released variables from the College Scorecard for earnings 8 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A5: Full earnings distributions by colleges' median earnings with consistent entry cohorts

*Notes*: The above figure plots the 10<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> earnings percentiles for different groups of colleges defined by their position in the distribution of median earnings. The figure uses data from the most recently released variables from the College Scorecard where all of the percentiles were reported for the same entry cohort. Specifically, the data come from the "MERGED\_2011-12 datafile". The data for 6 years after college entry come from the 2004-05 and 2005-06 pooled entry cohort. The data for 8 years after college entry come from the 2002-03 and 2003-04 pooled entry cohort. The data for 10 years after college entry come from the 2001-02 pooled entry cohort. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A6: Earnings volatility by college cohort size (6 years after college entry)

*Notes*: The above figure shows scatterplots of colleges' standard deviation in their earnings percentiles over time by the average size of the number of people in the earnings cohort. The figure uses all available data for earnings 6 years after college entry ever released by the College Scorecard for the sampled colleges. The figure excludes a small number of colleges from the analysis sample that do not have at least 3 cohorts with reported data for each earnings percentile. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A7: Earnings volatility by college cohort size (8 years after college entry)

*Notes*: The above figure shows scatterplots of colleges' standard deviation in their earnings percentiles over time by the average size of the number of people in the earnings cohort. The figure uses all available data for earnings 8 years after college entry ever released by the College Scorecard for the sampled colleges. The figure excludes a small number of colleges from the analysis sample that do not have at least 3 cohorts with reported data for each earnings percentile. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A8: 25<sup>th</sup> percentile earnings trajectories by college entry cohort

*Notes*: The above figure traces average 25<sup>th</sup> percentile earnings at 6, 8, and 10 years after college entry for each pooled entry cohort ever reported on by the College Scorecard. Due to an error made by the College Scorecard for the data released with earnings measured in 2018-19 and 2019-20, earnings were reported for 7, 9, and 11 years after college entry. To aggregate across colleges, the averages are weighted by the college-level earnings cohort size. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A9: 75<sup>th</sup> percentile earnings trajectories by college entry cohort

*Notes*: The above figure traces average 75<sup>th</sup> percentile earnings at 6, 8, and 10 years after college entry for each pooled entry cohort ever reported on by the College Scorecard. Due to an error made by the College Scorecard for the data released with earnings measured in 2018-19 and 2019-20, earnings were reported for 7, 9, and 11 years after college entry. To aggregate across colleges, the averages are weighted by the college-level earnings cohort size. All earnings percentiles are inflation adjusted into real 2022 dollars.



# Figure A10: Earnings by college selectivity (6 years after college entry)

Admit Rate

*Notes*: The above figure shows scatterplots of each of the college level earnings percentiles by their admit rate. All earnings data come from the most recently released variables from the College Scorecard for earnings 6 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.





Admit Rate

*Notes*: The above figure shows scatterplots of each of the college level earnings percentiles by their admit rate. All earnings data come from the most recently released variables from the College Scorecard for earnings 8 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.





*Notes:* The figure above plots the within-college difference between the median earnings for males and median earnings for females by the college admit rate. All earnings data come from the most recently released variables from the College Scorecard for earnings 6 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.

Figure A13: Gender earnings gap by college selectivity (males minus females, 8 years after college entry)



*Notes:* The figure above plots the within-college difference between the median earnings for males and median earnings for females by the college admit rate. All earnings data come from the most recently released variables from the College Scorecard for earnings 8 years after college entry. All earnings percentiles are inflation adjusted into real 2022 dollars.



Figure A14: Median earnings by selectivity for top 20 fields (4 years after graduation)

*Notes*: The figure above shows scatterplots of median earnings by college admit rate, separately by each of the top 20 fields of study. The top 20 fields of study are determined by the total number of people in the earnings cohorts by field of study. All earnings data come from the most recently released variables from the College Scorecard's field of study data file for median earnings 4 years after college graduation. All earnings data are inflation adjusted into real 2022 dollars.



Figure A15: Median earnings by selectivity for top 20 fields (1 year after graduation)

*Notes*: The figure above shows scatterplots of median earnings by college admit rate, separately by each of the top 20 fields of study. The top 20 fields of study are determined by the total number of people in the earnings cohorts by field of study. All earnings data come from the most recently released variables from the College Scorecard's field of study data file for median earnings 1 year after college graduation. All earnings data are inflation adjusted into real 2022 dollars.