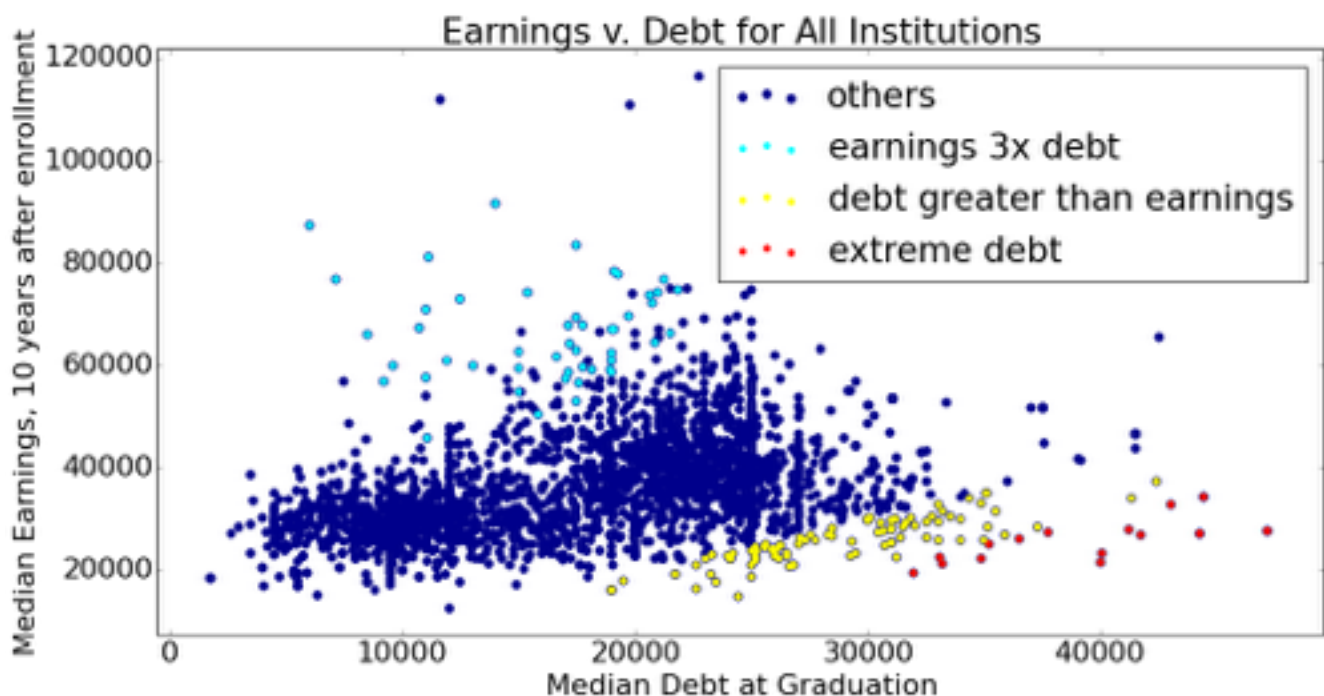


The Good, the Bad, and the Ugly:
A look at the best and worst deals in Higher Education

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Choosing a university is one of the most important, and stressful decisions that young Americans go through. Weighing the options can often seem overwhelming, and many students end up applying to and attending schools for arbitrary reasons. Fortunately, the US Department of Education has just given high-schoolers a modern analytical tool in the recently launched College Scorecard¹, a web-based database of over 7,500 institutions of higher learning in the US. The site is powered by a dataset that includes information about schools and students dating from 1996. With a quick search, prospective students can see a snapshot of their target school, with information about academics, admissions, cost, and outcomes. In addition to the website, the Department also released their entire dataset. Here's a look at some of the best and worst deals in higher education.

Figure 1 shows the median debt of graduating students plotted against the median earnings of students ten years after enrollment at each institution in the US².



The scatterplot shows four categories of schools: the good, the bad, the extremely bad, and all the rest. The yellow and red schools have a median debt at graduation that is higher than the median earnings of their graduates ten years after enrollment. These schools drop their students onto a mountain of debt without the means to pay it off. The schools in cyan are the

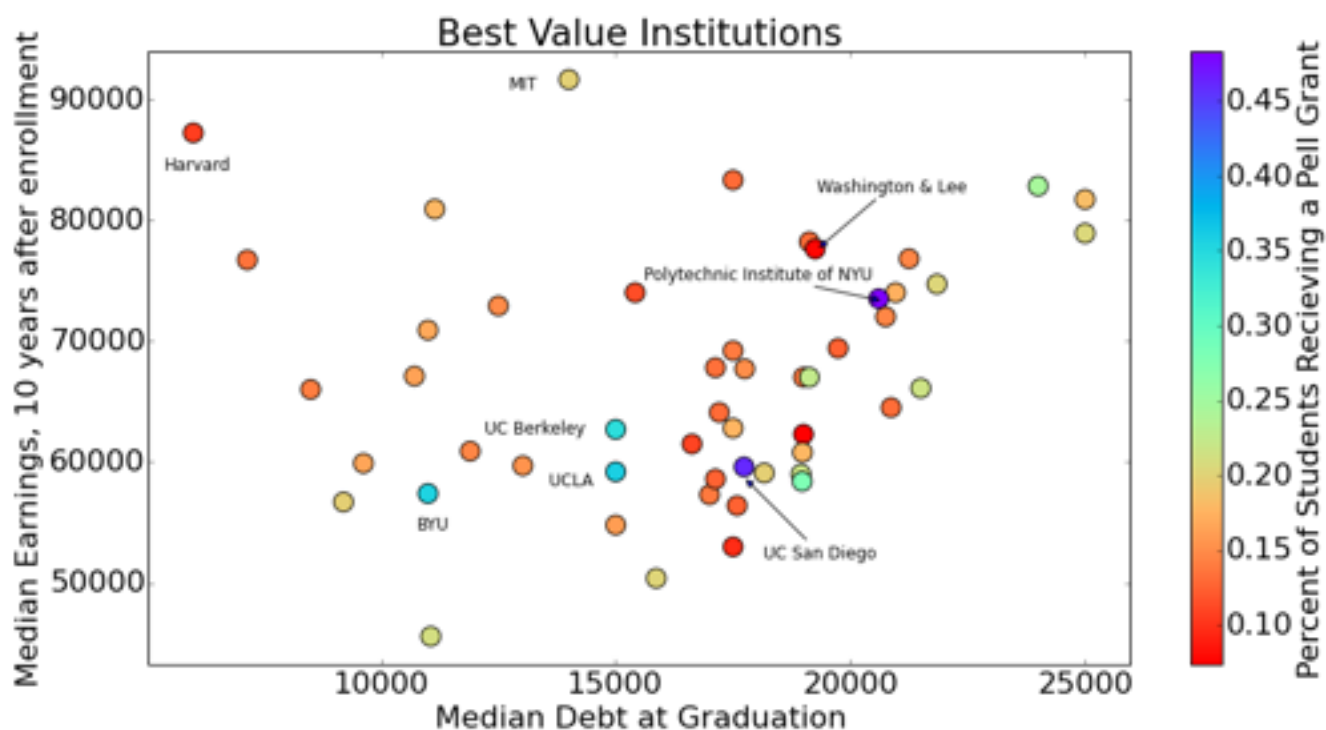
¹ <https://collegescorecard.ed.gov/>

² All data from the 2011 merged scorecard dataset.

best deals in education, with median 10 year earnings more than three times³ debt at graduation. This cohort has also been limited to schools with an average SAT score⁴ of over 1250.

The schools in the debt-ridden sector follow some recognizable patterns. Among these schools are many for-profit universities, some even with '.inc' in their names. Some of the names, like Westwood College, are familiar, having been in the news over shady practices⁵. Many of these institutions are distance-learning only, and their credits may not be transferable to other institutions. The worst of the worst in this group are shown in red in Figure 1. These are schools where graduates earn \$10,000 less per year than their debt at graduation. The Southwest University of Visual Arts saddles it's students with a median debt of \$47,000, and grads earn a mere \$27500 per year, ten years *after* graduating. These schools disproportionately victimize minority students. Among all college students, about 17% are black, but in the worst performing universities 54% of students are black.

Among the best value schools, many of the elites are found. MIT and Harvard boast some of the lowest graduation debt and highest earnings for their graduates, but is this the whole story? Maybe these students have so little debt because their families can afford the astronomical price tags that these schools some with. Stanford grads make great money⁶, but it costs \$224,000 to complete four years there. How are student's leaving with only \$11,000 in debt? Figure 2 shows the best value schools, color coded by the percentage of their students that received Pell Grants. Because Pell Grants are awarded to all students who can show



³ And above \$40,000 per year.

⁴ Math and Verbal sections only

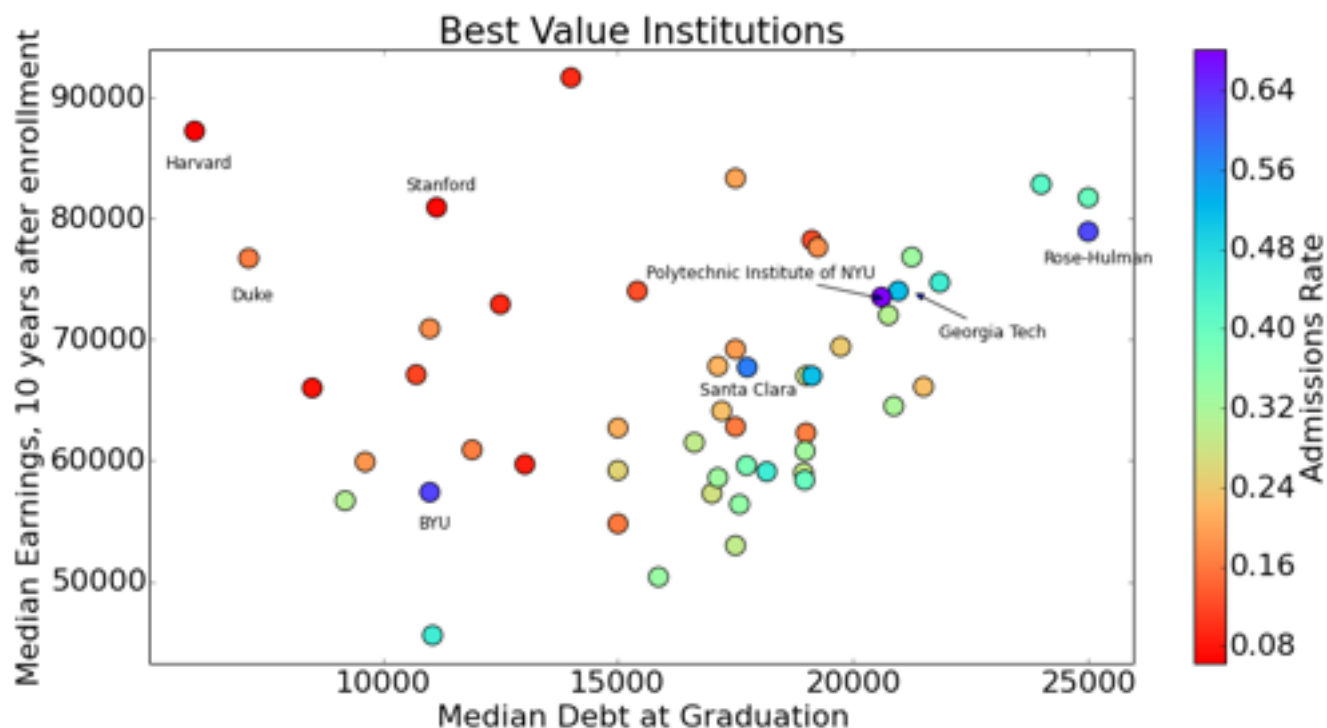
⁵ <http://www.nytimes.com/2012/07/30/education/harkin-report-condemns-for-profit-colleges.html>

⁶ \$80,900/yr after 10 years

financial need, it is a good indicator of how many students come from families of means and do not need to go into debt to pay for university.

Now it's clear where more of the real value is among top universities. Some of the schools with high-earning potential are so expensive that it might not be worth it for a student from a middle-income family. Schools like Harvard, CalTech, Georgetown, Duke, and Washington and Lee charge huge sums. Though they report very little debt among their graduating students, their students are also the type that don't qualify for Pell Grants. At Washington and Lee, just 8% of students received Pell Grants. At Harvard, the number was just 11%. Schools that offer students of middling means the best return include Case Western, USC, Emory, and BYU. The UC system is also a highlight, with a high percentage of students at UCLA, UC Berkeley, and UC San Diego receiving Pell Grants and leaving school with little debt.

Another way of looking for a bargain is looking at potential earnings versus the cost of attendance. Some students will come from families that can afford to pay for their child's university, and that's a great reason to look for reasonably priced schools that offer great outcomes. The public universities excel in this regard. Some of the best schools with the lowest costs are Brigham Young, Georgia Tech, UVA, and UNC Chapel Hill. Georgia Tech stands out here, costing around \$19,000 per year, with expected earnings of 74,000 per year.



Let's say that a student has good, but not great, grades and scores. What elite institutions does he or she have the best chance of being accepted to? Figure 3 shows the same top schools, this time coded by admission rate.

Even if you have a perfect application, schools like Harvard and Stanford are no sure

thing, accepting just 6 and 7% of applicants each year, respectively. If a student is looking for a top education, he or she might have the best chances of getting it by applying to schools with higher admissions rates. BYU, Georgia Tech, Case Western, and Maryland-College Park all have top students, top earnings, minimal debt, and high admissions rates. Prospective university students would do well to forgo any pretentious desires for an Ivy League diploma, and instead opt for a cheaper alternative that can lead to the same, if not better results.

It's difficult to judge exactly what college is the best value in America, so a short-list will have to do. Case Western gets a mention for its high percentage of students receiving Pell Grants and high admissions rate. Georgia Tech and Maryland-College Park are next, offering a high quality education at a low cost, and giving many students a chance with their high admissions rates. Finally, two lesser thought of schools round off the list: BYU and The Polytechnic Institute of New York University. Both have high admissions rates and a high number of students receiving Pell Grants.

| Name | Median Earnings After 10yrs | Cost: Academic Year | Median Debt at Graduation |
|--|-----------------------------|---------------------|---------------------------|
| Allen University | 19400 | 19831 | 31980 |
| Arkansas Baptist College | 21100 | 20015 | 33179 |
| Benedict College | 21400 | 27620 | 40000 |
| Beulah Heights University | 26800 | 11105 | 41750 |
| Central State University | 24900 | 16288 | 35218.5 |
| College of Court Reporting Inc | 23300 | 14518 | 40050 |
| Florida Memorial University | 27700 | 23611 | 41213 |
| Livingstone College | 26100 | 24000 | 36500 |
| Martin University | 22300 | 21250 | 34860 |
| Platt College-Aurora | 32600 | 41487 | 43000 |
| Shaw University | 27400 | 24269 | 37737 |
| South College | 22400 | 31676 | 33110 |
| Southwest University of Visual Arts-Albuquerque | 27500 | 46544 | 47186.5 |
| Southwest University of Visual Arts-Tucson | 27500 | 46183 | 47186.5 |
| Stenotype Institute of Jacksonville Inc-Jacksonville | 27100 | 30122 | 44260 |
| Stenotype Institute of Jacksonville Inc-Orlando | 27100 | 29393 | 44260 |
| Westwood College-Annandale | 34200 | 29306 | 44404.5 |
| Westwood College-Arlington Ballston | 34200 | 29361 | 44404.5 |
| Westwood College-South Bay | 34200 | 29329 | 44404.5 |

Appendix B. The Zone of Good Return

| Name | Earnings | Cost | Debt | % Pell | Adm. Rate |
|--|----------|-------|-------|--------|-----------|
| Boston College | 67000 | 54595 | 19000 | 0.1385 | 0.2798 |
| Bowdoin College | 54800 | 54950 | 15000 | 0.1612 | 0.1611 |
| Brigham Young University-Provo | 57400 | 16050 | 11000 | 0.356 | 0.6278 |
| Brown University | 59700 | 54370 | 13022 | 0.1548 | 0.0891 |
| California Institute of Technology | 74000 | 52389 | 15414 | 0.1138 | 0.1277 |
| Carnegie Mellon University | 72000 | 55286 | 20750 | 0.1458 | 0.3044 |
| Case Western Reserve University | 67000 | 52073 | 19125 | 0.2255 | 0.5126 |
| Colby College | 53000 | 53590 | 17500 | 0.097 | 0.2944 |
| Colgate University | 61500 | 54030 | 16625 | 0.1102 | 0.2942 |
| College of William and Mary | 56400 | 23722 | 17586 | 0.1265 | 0.3464 |
| Colorado School of Mines | 74700 | 25121 | 21844 | 0.204 | 0.4455 |
| Columbia University in the City of New York | 72900 | 56681 | 12500 | 0.1497 | 0.0954 |
| Cornell University | 70900 | 54667 | 11000 | 0.1695 | 0.1797 |
| Dartmouth College | 67100 | 55386 | 10712 | 0.1641 | 0.1168 |
| Duke University | 76700 | 55150 | 7150 | 0.1353 | 0.1648 |

| Name | Earnings | Cost | Debt | % Pell | Adm. Rate |
|---|----------|-------|---------|--------|-----------|
| Emory University | 59000 | 53556 | 18947.5 | 0.2178 | 0.2887 |
| George Washington University | 64500 | 55625 | 20867.5 | 0.1327 | 0.3169 |
| Georgetown University | 83300 | 56485 | 17500 | 0.1313 | 0.2015 |
| Georgia Institute of Technology- Main Campus | 74000 | 19793 | 20963 | 0.174 | 0.5169 |
| Grinnell College | 45600 | 49062 | 11060 | 0.2115 | 0.448 |
| Hamilton College | 57300 | 53560 | 17000 | 0.1392 | 0.2737 |
| Harvard University | 87200 | 53950 | 6000 | 0.1065 | 0.0626 |
| Johns Hopkins University | 69200 | 55390 | 17500 | 0.1397 | 0.194 |
| Lehigh University | 76800 | 52454 | 21250 | 0.147 | 0.3337 |
| Massachusetts Institute of Technology | 91600 | 53210 | 14003 | 0.1991 | 0.0973 |
| Northwestern University | 64100 | 56406 | 17207.5 | 0.1308 | 0.2313 |
| Polytechnic Institute of New York University | 73500 | 45230 | 20604 | 0.483 | 0.6814 |
| Rensselaer Polytechnic Institute | 81700 | 54035 | 25000 | 0.184 | 0.3963 |
| Rice University | 59900 | 47871 | 9625.5 | 0.1661 | 0.1882 |
| Rose-Hulman Institute of Technology | 78900 | 51427 | 25000 | 0.2059 | 0.6224 |
| SUNY at Binghamton | 58400 | 19988 | 18972 | 0.2789 | 0.4007 |
| Santa Clara University | 67700 | 53122 | 17749 | 0.1519 | 0.5795 |

| Name | Earnings | Cost | Debt | % Pell | Adm. Rate |
|---|----------|-------|---------|--------|-----------|
| Stanford University | 80900 | 55918 | 11145.5 | 0.1787 | 0.071 |
| Stevens Institute of Technology | 82800 | 53661 | 24000 | 0.2461 | 0.4167 |
| Tufts University | 67800 | 55000 | 17125 | 0.1332 | 0.2186 |
| University of California-Berkeley | 62700 | 30800 | 15000 | 0.3445 | 0.2143 |
| University of California-Los Angeles | 59200 | 29240 | 15000 | 0.3599 | 0.2554 |
| University of California-San Diego | 59600 | 27700 | 17734 | 0.4611 | 0.3788 |
| University of Chicago | 62800 | 57590 | 17500 | 0.1767 | 0.1626 |
| University of Maryland-College Park | 59100 | 21785 | 18165 | 0.1969 | 0.448 |
| University of North Carolina at Chapel Hill | 50400 | 20208 | 15863 | 0.2032 | 0.3388 |
| University of Notre Dame | 69400 | 53239 | 19737 | 0.1258 | 0.2429 |
| University of Pennsylvania | 78200 | 55250 | 19125 | 0.1309 | 0.1243 |
| University of Richmond | 60800 | 52413 | 18980 | 0.1788 | 0.3271 |
| University of Southern California | 66100 | 55493 | 21500 | 0.2169 | 0.2302 |
| University of Virginia-Main Campus | 58600 | 22535 | 17125 | 0.1254 | 0.3327 |
| Vanderbilt University | 60900 | 56634 | 11900 | 0.1465 | 0.1642 |
| Washington University in St Louis | 62300 | 56930 | 19000 | 0.0738 | 0.1652 |

| Name | Earnings | Cost | Debt | % Pell | Adm. Rate |
|-------------------------------|----------|-------|-------|--------|-----------|
| Washington and Lee University | 77600 | 53082 | 19250 | 0.0785 | 0.1822 |
| Wellesley College | 56700 | 54000 | 9200 | 0.1979 | 0.3068 |
| Yale University | 66000 | 55300 | 8500 | 0.1418 | 0.0788 |