

# Doctoral Origins and Gender and Racial/Ethnic Backgrounds of College Faculty

Stephen Wu

Hamilton College

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## Abstract

This paper studies the doctoral origins and demographics of faculty at the top 25 research universities and top 25 liberal arts colleges across six different disciplines: Chemistry, Economics, English, History, Mathematics, and Sociology. Overall, a large proportion of faculty receive their doctorates from a select group of PhD-granting institutions within their field, though these concentration ratios vary significantly across discipline as well between research universities and liberal arts colleges. Top liberal arts colleges generally have higher proportions of female and non-binary faculty than top research universities. Meanwhile, although the proportions of non-white faculty are largely the same across institution type, there are notable differences within specific racial/ethnic groups.

Economics Department  
Hamilton College  
Clinton, NY 13323  
Tel: 315-859-4645  
[swu@hamilton.edu](mailto:swu@hamilton.edu)

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## **Introduction**

There is ample evidence that demonstrates the extremely hierarchical nature of academia, where the vast majority of faculty members come from a very narrow set of graduate institutions. There are many potential negative consequences of such a hierarchical system. Students who do not have the economic means and social networks to apply to and get accepted to elite undergraduate institutions are often overlooked for admission to top graduate programs, thereby greatly diminishing their chances of landing a desirable academic position. “Late bloomers”, who may have taken more time to develop into talented scholars, will be passed over for tenure-track academic posts because they lack the academic pedigree of others. This perpetuation of social inequities also has ramifications on faculty diversity along a number of dimensions such as gender and race/ethnicity.

Although stratification within academia is widely known, there is less systematic study of the differences in this stratification across various fields of study and types of institutions. This article takes a snapshot of tenured and tenure-track faculty at a selection of top-rated research universities and liberal arts colleges across six different disciplines (Chemistry, Economics, English, History, Mathematics, and Sociology) to assess how demographic characteristics and doctoral origins of faculty members vary across disciplines as well as between research-focused and teaching-focused institutions. There are a number of general patterns that emerge from this data. Unsurprisingly, a large percentage of faculty at elite institutions receive their doctorates from top ranked graduate programs, with the concentrations of faculty with doctoral degrees from the top 10 or 20 graduate programs being significantly higher at elite research universities than at

elite liberal arts colleges, though there is quite a bit of variation across disciplines. Female and non-binary faculty are generally more well-represented at top teaching-focused institutions relative to top research universities. And although the percentages of non-white faculty are generally quite similar across institution types, there are some differences within specific racial groups.

In taking a closer look at the doctoral origins of faculty members at elite colleges and universities, certain patterns emerge. While many of the top ranked programs place large numbers of their graduates in both highly ranked research universities and liberal arts colleges, some programs have a disproportionately high fraction of their alumni teaching at liberal arts colleges, relative to more research-intensive schools. For prospective graduate students who aspire to work at more teaching-focused institutions, this information may be useful when deciding on what programs to apply to and ultimately, to attend.

### **Related Research**

Prior work has documented the concentration of doctoral origins of faculty in several disciplines. Jones and Sloan (2024) find that 60% of economics faculty receive their doctorates from a top-15 rated graduate program and roughly one-third graduated from a top-six program. Segall and Feldman (2018) show that attending a top 10 law school is paramount to landing a job at a similarly ranked school. Fowler et al. (2007) discuss the importance of networks in PhD placement in the field of political science. Indeed, the prestige of graduate programs is often driven by the placement records of their graduates, and this often serves as the basis for a ranking system (Schmidt and Chingos 2007). The

importance of networks and the hierarchical nature of top academic job placements are also discussed in the contexts of anthropology (Kawa et al. 2019); finance (Bair 2008); sociology (Burris 2004 and Headworth and Freese 2016); and computer science, business, and history (Clauset et al. 2015).

A number of papers have also documented the extent of faculty diversity in various disciplines, particularly in professional programs such as medicine (Shah et al. 2020; Zhang et al. 2021), clinical psychology (White et al. 2021), law (Hans and Archer 2019), and environmental studies (Taylor 2010). And various authors have explored strategies to increase representativeness of college faculty, including Gruber et al. (2021), Bradley et al. (2022), and Cosgriff-Hernandez et al. (2023).

### **Data Assembly**

In this paper, I focus on studying the differences in doctoral origins and demographic backgrounds of faculty across two types of institutions: elite research universities and liberal arts colleges in the United States. The data set was assembled through a search of institutional web sites of the top twenty-five research universities and top twenty-five liberal arts colleges during the summer of 2024, where the rankings of institutions are determined by the *U.S. News and World Report's "Best Colleges"* lists for 2024. Departmental websites regularly provide information on faculty members about their date of hire and where they received their undergraduate and graduate degrees. When explicit information about gender and race were not directly indicated on resumes or websites, photographs of faculty members were used to help ascertain this information. I included in my database all faculty members holding permanent positions at the rank of assistant,

associate, or full professor, and excluded individuals holding temporary and adjunct positions, emeriti faculty, and individuals whose information was unavailable. The resulting data set includes information for slightly over six thousand faculty members in six departments at fifty leading colleges and universities.

For ratings of doctoral schools, I used the 2024 *U.S. News and World Report* rankings of PhD programs for each of the six different disciplines in this study. Because doctoral program rankings are only constructed once every few years, these rankings were assembled between 2021-2023, depending on the discipline.<sup>1</sup>

### **Doctoral Origins**

Table 1 shows the concentration of doctoral origins for faculty in six disciplines at the top twenty-five research universities. Economics has the highest percentage (64.2%) of faculty holding doctorates from a top 10 graduate program, though Sociology (62.4%) and History (61.9%) are not far behind. Chemistry and Mathematics are the least concentrated of the disciplines, where about half of faculty doctorates came from a top-ten PhD program. The rankings are roughly the same when looking at the concentration of top-twenty graduate programs, though Sociology (81.5%) now overtakes Economics (78.0%) as the discipline with the highest percentage. Compared to a similar study done twenty years ago (Wu 2004), we see that Sociology has become more concentrated in terms of doctoral origins of faculty at top research universities, with an increase in percentages of top 10 and top 20 PhD degree holders of 6.8 and 7.5 percentage points, respectively. There is a modest increase in the doctoral concentration for History

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<sup>1</sup> In situations where ties resulted in having more than 10 (20) programs ranked in the top 10 (20), I broke ties using an alphabetical rule.

(increases of 3.0 and 2.2 percentage points), while Economics has become somewhat less concentrated (decreases of 3.1 and 3.9 percentage points). Meanwhile, these percentages have not appreciably changed over time for Mathematics and Chemistry. On average, the concentration of graduate degrees has been fairly stable over time at elite research universities.

Table 2 shows the analogous percentages for liberal arts colleges. Overall, the percentages of faculty with degrees at top-ranked graduate institutions are much lower across the board for all fields, though the ordering of the degree concentration differs from that at research institutions. Among liberal arts colleges, English and History have the highest percentage of tenured and tenure-track faculty with PhDs from top-ranked institutions, with 47.3 (64.9) and 44.9 (60.6) percent of faculty receiving PhD degrees from top ten (twenty) graduate programs, respectively. Mathematics is, by far, the least concentrated field, with only 20.9 percent of faculty having their doctorate from a top ten program and 33.6 originating from a top twenty school. In comparing these numbers with Wu (2004), we see that at top-25 liberal arts colleges, nearly every single discipline has become less concentrated relative to 20 years ago. One exception is Sociology, which saw an increase in the percentage of faculty with a PhD from a top-ten program, and only a very slight decrease in the percentage with a top-twenty PhD.

Table 3 calculates by discipline the differences between elite research universities and liberal arts colleges in the concentration of doctorates from top ranked graduate programs. For every field of study, top research universities are significantly more concentrated than top liberal arts colleges, though these differentials vary by department. The starkest contrasts across institution type are for Economics, Mathematics, and

Sociology where the percentage point differences in faculty holding doctorates from top ten (twenty) programs are 32.1 (24.7), 30.8 (29.3), and 26.7 (35.1), respectively. The corresponding differentials for History and Chemistry are a bit more modest, all somewhere between 14 and 18 percentage points, while the differentials for English are the smallest of the disciplines (9 percentage point differences for shares of both top 10 and top 20 departments). Relative to 2004, the gap in concentration of doctorates between research universities and liberal arts colleges has increased for every single discipline, ranging anywhere from 2-21 percentage points. As shown above, this is largely driven by the fact that liberal arts colleges have become much more open to hiring faculty who obtain their doctoral degrees outside of the very top tier, while concentration of doctorates at research universities has remained relatively stable for most disciplines.

Additional information for specific graduate programs is contained in Appendix Tables 1-7. Table A1 lists the number of faculty members at the top ranked research-focused and teaching-focused who received a doctorate from every one of the top twenty PhD graduate programs for each of the six fields of study. Tables A2-A7 list *all* graduate programs that have at least three of their graduates as faculty members at a top 25 research university or at least three graduates at a top 25 liberal arts college. As expected, nearly all top ranked PhD programs have a great number of individuals on the faculty of top research universities, though the patterns are less clear when looking at faculty rosters of top liberal arts colleges. There are a number of PhD programs that have a relatively high proportion of alumni working at elite liberal arts colleges, with several even having more graduates teaching at liberal arts colleges than at research universities, in spite of the much smaller department sizes at teaching-focused institutions. For example, in

Chemistry, the University of Wisconsin has 19 of their graduates teaching at top liberal arts institutions but only 16 graduates teaching at top research universities. In Economics, Michigan, Cornell, and Wisconsin all have greater absolute numbers of alumni teaching at top liberal arts schools than at the top research schools. Other graduate programs that have a disproportionate share of alumni at liberal arts colleges include Michigan, Northwestern, and City University of New York (in English) and Brown (in Mathematics). There are many possibilities that specific institutions may send a high proportion of their graduates to institutions that focus on undergraduate teaching. Perhaps some programs specialize in more applied fields that would be more in demand at schools that are dedicated to undergraduate education. There may also be a history and culture in certain programs that are more conducive to encouraging their graduate students to pursue careers at teaching-focused schools. Regardless of the reasons, prospective graduate students who aim for a faculty position at a liberal arts college may wish to pay special attention to these programs.

### **Faculty Diversity**

Next, I study diversity along racial/ethnic and gender lines for faculty at top colleges and universities. As mentioned earlier, some faculty members explicitly include information on gender and/or racial/ethnic identities on their websites or resumes, but for those that do not, I use photographs and names to help ascertain this information, though I acknowledge the limitations and potential errors that may result from this categorization. And although I do not categorize faculty by national origin or citizenship

status, this information is often helpful in determining racial/ethnic background for those who are citizens of certain foreign countries.

Table 4 shows the gender and racial/ethnic breakdowns of faculty at top 25 research universities for each of the six disciplines in our data. There is a wide range in terms of gender diversity, with English, Sociology, and History having female/non-binary percentages of 52.6, 50.9, and 42.5, respectively, but Chemistry, Economics, and Mathematics having much lower percentages of 25.2, 20.5, and 18.7. With respect to the racial/ethnic breakdown, the overall range in shares of non-white faculty is fairly tight, with a low of 19.6 percent in History to a high of 28.6 percent in Sociology. However, there are some stark differences in the composition of specific groups of non-white faculty members. For instance, Chemistry, Economics, and Mathematics have relatively high percentages of Asian faculty (19.7, 14.9, and 20.1 percent, respectively) and very low percentages of Black faculty (2.0, 1.5, and 1.4 percent, respectively), while English, History, and Sociology are more balanced between these two groups (percentages of Asian faculty of 9.9, 8.5, and 11.8 percent and percentages of Black faculty of 11.8, 8.0, and 11.0 percent). Percentages of Hispanic faculty are generally modest across all disciplines, ranging from 2.2 percent in Mathematics to 5.8 percent in Sociology.

Table 5 shows gender and racial/ethnic breakdowns of faculty at top 25 liberal arts colleges. While there is still a wide range in the level of gender diversity across fields, the percentages of female and non-binary faculty are higher at liberal arts schools than at research schools for every single discipline in our study. In terms of racial and ethnic diversity, the percentages of non-white faculty members are generally comparable across institution types, though within specific categories there are some differences. Table 6

displays the differentials in percentages of female and non-binary faculty across the two types of institutions, as well the analogous differences for racial/ethnic categories. While the percentages of non-male faculty are higher at elite liberal arts colleges than at elite research across each of the fields, these differences are especially big in Chemistry and Math (differences of 23.1 and 19.6 percentage points), somewhat more moderate in Economics and Sociology (13.0 and 8.2 percentage points), and almost negligible in History and English (3.1 and 1.7 percentage points). Differences in total non-white percentages of faculty are fairly modest across institution type, with all disciplines being within 5 percentage points of each other one way or the other, but there are some noticeable disparities in representation of specific ethnic groups when comparing research-focused and teaching-focused schools. For example, at research universities the percentages of Asian faculty in Chemistry (19.7) and Math (20.1) are significantly higher than at liberal arts colleges (7.2 and 13.0 percent), while the reverse is true for Black faculty, where the percentages are 2.0 (Chemistry) and 1.5 (Math) at research universities and 7.9 (Chemistry) and 5.6 (Math) at liberal arts colleges.

What accounts for these differences in racial/ethnic and gender representation across different institution types? While I do not have specific evidence that allows for definitive conclusions, there are a number of possibilities. It is possible that there are differences across demographic groups in overall preferences towards academic careers that are relatively more focused on either research or teaching. Relatedly, data from the Survey of Earned Doctorates shows that certain subfields within a discipline have more representation of women and nonwhite individuals than other subfields. For example, females comprise 35% of doctorates in statistics but only 20% of doctorates in

mathematics; many research universities will have a statistics department that is independent and entirely separate from a mathematics department, but many liberal arts colleges will house their statisticians in mathematics departments. As another example, within the discipline of economics, females comprise 48% of doctorates that specialize in applied economics (where liberal arts colleges are likely to have a stronger emphasis in this area) but only 28% of doctorates that specialize in econometrics or quantitative economics (where research universities have relatively more of these types of scholars). Another possibility is that smaller institutions are making more concerted DEI efforts in their hiring practices. This could explain the higher representation of female faculty, though would not explain the somewhat mixed results in terms of representation of nonwhite faculty across certain disciplines.

### **Discussion and Recommendations**

This study shows that graduates from the top-rated PhD programs continue to hold an overwhelming share of faculty positions at leading colleges and universities. While the concentration of faculty from a select few schools is much greater at top research universities compared to top liberal arts colleges, there is still a fair amount of variation across fields. Elite teaching focused institutions have significantly better gender representation than elite research universities, though again these differences vary by discipline. And while overall percentages of non-white faculty are similar across institution type, some noticeable differences exist in some fields when focusing on specific racial/ethnic groups.

The reasons for these disparities are unclear, but merit further investigation and would be important to uncover. Differences in individual preferences that vary by demographic groups may be difficult to change, particularly in the near term. But if variation in faculty representation is at least partly due to the extent to which faculty in certain types of institutions and in particular fields value and incorporate inclusive hiring practices, then some introspection is warranted. Administrators and faculty on hiring committees would be well served to keep track of demographic trends from the Survey of Earned Doctorates to see how the breakdowns of their short and long lists compare with the profiles of overall doctorates within their field. And those responsible for hiring at elite research universities should question why their faculty rosters continue to show an extremely high concentration of doctorates coming from a narrow set of programs, even though liberal arts colleges are becoming more open to hiring from a broader set of graduate institutions. A comprehensive study that looks at hiring practices for different disciplines and types of institutions would be a worthwhile exercise.

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**Table 1. Percentage of Faculty at Top 25 Research Universities with PhD from Top Graduate Programs**

<u>Subject</u>	<u>Top 10 Program Phd</u>	<u>Subject</u>	<u>Top 20 Program Phd</u>
Economics	64.2	Sociology	81.5
Sociology	62.4	Economics	78.0
History	61.9	History	77.1
English	56.1	English	73.8
Mathematics	51.7	Chemistry	64.5
Chemistry	50.1	Mathematics	63.1
Average	57.7		71.3

**Table 2: Percentage of Faculty at Top 25 Liberal Arts Colleges with PhD from Top Graduate Programs**

<u>Subject</u>	<u>Top 10 Program Phd</u>	<u>Subject</u>	<u>Top 20 Program Phd</u>
English	47.3	English	64.9
History	44.9	History	60.6
Sociology	35.7	Economics	53.3
Chemistry	32.4	Chemistry	50.4
Economics	32.1	Sociology	46.4
Math	20.9	Math	33.6
Average	38.5		55.1

**Table 3: Difference in Concentration of PhDs from Top Programs: Research Universities vs. Liberal Arts Colleges**

<u>Subject</u>	<u>PhD from Top 10 School</u>	<u>Subject</u>	<u>PhD from Top 20 School</u>
Economics	32.1	Sociology	35.1
Math	30.8	Math	29.4
Sociology	26.7	Economics	24.7
Chemistry	17.7	History	16.5
History	17.0	Chemistry	14.2
English	8.8	English	8.9
Average	20.2		18.7

Sources: PhD program rankings on *U.S. News and World Report graduate school rankings between 2021-2023*  
 Research university and liberal arts college rankings based on 2024 U.S. News and World Report Best Colleges

**Table 4: Faculty Diversity at Top 25 Research Universities**

<u>Subject</u>	<u>% Female/Nonbinary</u>	<u>Subject</u>	<u>% Non-White</u>	<u>% Asian</u>	<u>% Hisp</u>	<u>% Black</u>
English	52.6	Sociology	28.6	11.8	5.8	11.0
Sociology	50.9	English	24.9	9.9	3.2	11.8
History	42.5	Chemistry	24.2	19.7	2.5	2.0
Chemistry	25.2	Mathematics	23.9	20.1	2.2	1.5
Economics	20.5	Economics	21.5	14.9	5.2	1.4
Mathematics	18.7	History	19.6	8.5	3.1	8.0
Average	35.1		23.8	14.2	3.7	6.0

Source: Data compiled from institutional Web sites based on 2024 USNWR rankings

**Table 5: Faculty Diversity at Top 25 Liberal Arts Colleges**

<u>Subject</u>	<u>% Female/Nonbinary</u>	<u>Subject</u>	<u>% Non-White</u>	<u>% Asian</u>	<u>% Hisp</u>	<u>% Black</u>
Sociology	59.1	Sociology	33.0	16.4	4.4	12.2
English	54.3	English	23.4	12.0	1.7	9.7
History	45.6	Math	22.5	13.0	3.9	5.6
Chemistry	48.3	History	21.6	10.9	3.0	7.7
Math	38.3	Economics	20.3	15.8	2.2	2.2
Economics	33.5	Chemistry	18.9	7.2	3.8	7.9
Average	46.5		23.3	12.6	3.2	7.6

Source: Data compiled from institutional Web sites based on 2024 USNWR rankings

**Table 6: Difference in Diversity Between Research Universities vs. Liberal Arts Colleges**

<u>Subject</u>	<u>% Female/Nonbinary</u>	<u>Subject</u>	<u>% Non-White</u>	<u>% Asian</u>	<u>% Hisp</u>	<u>% Black</u>
Chemistry	-23.1	Sociology	-4.4	-4.6	1.4	-1.2
Math	-19.6	History	-2.0	-2.4	0.1	0.3
Economics	-13.0	Economics	1.2	-0.9	3.0	-0.8
Sociology	-8.2	Math	1.4	7.1	-1.7	-4.1
History	-3.1	English	1.5	-2.1	1.5	2.1
English	-1.7	Chemistry	5.3	12.5	-1.3	-5.9
Average	-11.5		0.5	1.6	0.5	-1.6

Source: Data compiled from institutional Web sites based on 2024 USNWR rankings

**Table A1: Top 20 PhD Programs (by Discipline) and Graduates at Top Research Universities and Liberal Arts Colleges**

<b>Chemistry</b>			<b>Economics</b>			<b>English</b>		
<u>PhD Prog</u>	<u>Top 25 R1</u>	<u>Top 25 LAC</u>	<u>PhD Prog</u>	<u>Top 25 R1</u>	<u>Top 25 LAC</u>	<u>PhD Prog</u>	<u>Top 25 R1</u>	<u>Top 25 LAC</u>
Cal Tech	51	15	Harvard	115	12	Berkeley	74	20
MIT	57	15	MIT	103	14	Yale	61	27
Berkeley	100	20	Stanford	66	11	Harvard	49	11
Harvard	73	15	Princeton	61	15	Princeton	34	17
Stanford	36	6	Berkeley	48	16	Stanford	43	10
NW	16	5	Chicago	43	8	Chicago	25	5
Princeton	15	4	Yale	45	17	Penn	32	12
Scripps	10	1	NW	46	4	Columbia	42	11
Chicago	26	2	Columbia	21	11	Cornell	34	14
Illinois	10	5	Penn	30	4	<b>Michigan</b>	<b>13</b>	<b>13</b>
Columbia	29	4	NYU	16	2	UCLA	14	11
Yale	21	8	<b>Michigan</b>	<b>21</b>	<b>22</b>	Brown	15	5
Michigan	8	5	Cal Tech	4	1	Duke	27	7
<b>Wisconsin</b>	<b>16</b>	<b>19</b>	<b>Cornell</b>	<b>8</b>	<b>10</b>	JHU	23	4
UCLA	12	3	UCSD	13	9	<b>NW</b>	<b>4</b>	<b>4</b>
UNC	5	4	<b>Wisconsin</b>	<b>9</b>	<b>11</b>	<b>CUNY</b>	<b>3</b>	<b>5</b>
Penn	15	3	Duke	11	7	Rutgers	12	9
UT-Austin	7	2	Minnesota	31	8	UT-Austin	12	2
Ga Tech	1	1	Brown	11	4	NYU	18	5

<b>History</b>			<b>Math</b>			<b>Sociology</b>		
<u>PhD Prog</u>	<u>Top 25 R1</u>	<u>Top 25 LAC</u>	<u>PhD Prog</u>	<u>Top 25 R1</u>	<u>Top 25 LAC</u>	<u>PhD Prog</u>	<u>Top 25 R1</u>	<u>Top 25 LAC</u>
Berkeley	75	22	MIT	56	13	Berkeley	47	11
Princeton	68	19	Princeton	94	5	Harvard	58	3
Michigan	44	12	Harvard	66	9	Princeton	29	2
Yale	95	18	Stanford	37	7	Michigan	27	2
Columbia	76	13	Berkeley	65	13	Stanford	20	4
Stanford	56	11	Chicago	43	11	UCLA	20	3
UCLA	21	10	UCLA	17	8	NW	20	6
Chicago	44	14	Cal Tech	18	1	Chicago	44	4
Harvard	112	21	NYU	26	0	UNC	16	0
JHU	28	6	Yale	12	4	Wisconsin	39	5
Cornell	12	3	Columbia	14	2	Columbia	18	2
Penn	33	5	UT-Austin	23	6	Duke	10	0
UT-Austin	10	3	<b>Brown</b>	<b>9</b>	<b>10</b>	NYU	18	0
Wisconsin	23	11	Cornell	14	6	Penn	15	4
NYU	24	8	Duke	4	3	Cornell	8	0
NW	15	8	NW	7	3	Indiana	11	2
Brown	9	5	Penn	11	5	Ohio State	5	1
Duke	10	4	Wisconsin	10	6	Yale	5	2
UVA	16	4	CMU	3	2	Brown	8	1

Schools in bold have at least as many graduates at top 25 liberal arts colleges as at top 25 research universities

**Table A2: Chemistry****Graduates of Chemistry PhD Programs at Top 25 Research Universities (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
UC Berkeley	100
Harvard University	73
MIT	57
Caltech	51
Stanford University	36
Columbia University	29
University of Chicago	26
Yale University	21
Cornell University	16
Northwestern University	16
University of Wisconsin-Madison	16
Princeton University	15
UPenn	15
UCLA	12
UC San Diego	11
Scripps Research Institute	10
University of Illinois	10
Duke University	8
University of Cambridge	8
University of Michigan	8
University of Texas - Austin	7
Texas A&M University	6
UNC Chapel Hill	6
University of Oxford	6
Iowa State University	5
Purdue University	5
UC Santa Barbara	5
Hebrew University of Jerusalem	4
Indiana University	4
Johns Hopkins University	4
Penn State	4
Swiss Federal Institute of Technology	4
University of Hamburg	4
University of Toronto	4
University of Washington	4
Washington University	4
Colorado State University	3
George Washington University	3
Rockefeller University	3
UC Irvine	3
University of Arizona	3
University of British Columbia	3
University of Iowa	3
University of Maryland	3
University of Notre Dame	3
University of Pittsburgh	3
University of Rochester	3
University of Utah	3
Weizmann Institute of Science	3

**Graduates of Chemistry PhD Programs at Top 25 Liberal Arts Colleges (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
UC Berkeley	20
University of Wisconsin-Madison	19
Caltech	15
Harvard University	15
MIT	15
Yale University	8
Purdue University	7
Ohio State University	6
Stanford University	6
Duke University	5
Johns Hopkins University	5
Northwestern University	5
University of Illinois	5
University of Michigan	5
Columbia University	4
Cornell University	4
Penn State	4
Princeton University	4
UC San Diego	4
UNC Chapel Hill	4
University of Colorado	4
Indiana University	3
Oregon State University	3
UC San Francisco	3
UCLA	3
UPenn	3
University of Florida	3
University of Minnesota	3
University of Washington	3

**Table A3: Economics****Graduates of Economics PhD Programs at Top 25 Research Universities (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
Harvard University	115
MIT	103
Stanford University	66
Princeton University	61
UC Berkeley	48
Northwestern University	46
Yale University	45
University of Chicago	43
University of Minnesota	31
UPenn	30
Columbia University	21
University of Michigan	21
NYU	16
UCLA	16
University of Rochester	15
UC San Diego	14
London School of Economics	13
Brown University	11
Duke University	11
University of Wisconsin-Madison	9
Cornell University	8
Johns Hopkins University	7
Penn State	7
University of Texas - Austin	6
Boston University	5
University College London	5
University of Bonn - Germany	5
University of Oxford	5
University of Virginia	5
Caltech	4
Queen's University	4
University of Cambridge	4
University of Illinois - Urbana-Champ..	4
Ecole des Hautes Etudes en Sciences S.	3
European University Institute	3
Ohio State University	3
Paris School of Economics	3
Toulouse School of Economics	3
University of Maryland	3
University of Southern California	3
Washington University - St. Louis	3

**Graduates of Economics PhD Programs at Top 25 Liberal Arts Colleges (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
University of Michigan	22
Yale University	17
UC Berkeley	16
Princeton University	15
MIT	14
Harvard University	12
Columbia University	11
Stanford University	11
University of Wisconsin-Madison	11
Cornell University	10
UC San Diego	9
UC Davis	8
University of Chicago	8
University of Minnesota	8
Duke University	7
Ohio State University	6
University of Colorado - Boulder	6
University of Notre Dame	6
Indiana University	5
Johns Hopkins University	5
UC Irvine	5
UC Santa Barbara	5
University of Maryland	5
University of Pittsburgh	5
Boston University	4
Brown University	4
Northwestern University	4
Texas A&M University	4
UCLA	4
UMass Amherst	4
UPenn	4
University of Illinois - Urbana-Champ..	4
University of Texas - Austin	4
University of Washington	4
Vanderbilt University	4
Boston College	3
Penn State	3
Queen's University	3
University of Oregon	3
University of Rochester	3
University of Virginia	3
Washington University - St. Louis	3

**Table A4: English****Graduates of English PhD Programs****Top 25 Research Universities (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
UC Berkeley	74
Yale University	61
Harvard University	49
Columbia University	42
Stanford University	43
Cornell University	34
Princeton University	34
UPenn	32
Duke University	27
University of Chicago	25
Johns Hopkins University	23
NYU	18
Brown University	15
UCLA	14
University of Oxford	14
University of Michigan	13
University of Wisconsin-Madison	13
Rutgers University	12
University of Texas - Austin	12
University of Virginia	11
University of Cambridge	9
Indiana University	7
University of Minnesota	6
UC Irvine	5
UC Santa Barbara	5
UNC Chapel Hill	5
University of Southern California	5
University of Toronto	5
Michigan State University	4
Northwestern University	4
University of Iowa	4
University of Washington	4
Boston University	3
CUNY Graduate Center	3
Penn State	3
SUNY - Buffalo	3
UC Davis	3
UC Santa Cruz	3
University of Birmingham	3
University of Illinois	3
University of Maryland	3
Vanderbilt University	3

**Graduates of Top English PhD Programs****Top 25 Liberal Arts Colleges (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
Yale University	27
UC Berkeley	20
Princeton University	17
Cornell University	14
University of Michigan	13
University of Virginia	13
UPenn	12
Columbia University	11
Harvard University	11
UCLA	11
Stanford University	10
Rutgers University	9
Duke University	7
Brown University	5
CUNY Graduate Center	5
NYU	5
University of Chicago	5
University of Oxford	5
University of Wisconsin-Madison	5
Johns Hopkins University	4
Northwestern University	4
SUNY Buffalo	4
UNC Chapel Hill	4
University of Denver	4
Florida State University	3
UC Davis	3
University of Illinois-Urbana-Champaign	3
University of Southern California	3

**Table A5: History****Graduates of History PhD Programs****Top 25 Research Universities (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
Harvard University	112
Yale University	95
Columbia University	76
UC Berkeley	75
Princeton University	68
Stanford University	56
University of Chicago	44
University of Michigan	44
UPenn	33
Johns Hopkins University	28
University of Cambridge	25
NYU	24
University of Wisconsin-Madison	23
University of Oxford	22
UCLA	21
University of Virginia	16
Northwestern University	15
Cornell University	12
Duke University	10
University of Texas - Austin	10
Brown University	9
UNC Chapel Hill	9
Georgetown University	8
University of Minnesota	8
University of Illinois - Urbana-Cham	7
Rutgers University	6
University of Notre Dame	6
Emory University	5
UC San Diego	5
Brandeis University	4
College of William and Mary	4
Indiana University	4
Ohio State University	4
University of London	4
University of Rochester	4
MIT	3
McGill University	3
Michigan State University	3
University of Southern California	3
University of Vienna	3
University of Washington	3

**Graduates of Top History PhD Programs****Top 25 Liberal Arts Colleges (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
UC Berkeley	22
Harvard University	21
Princeton University	19
Yale University	18
University of Chicago	14
Columbia University	13
University of Michigan	12
Stanford University	11
University of Wisconsin-Madison	11
Rutgers University	10
UCLA	10
UNC Chapel Hill	9
NYU	8
Northwestern University	8
Ohio State University	7
Johns Hopkins University	6
Brown University	5
Indiana University	5
UC Davis	5
UC Santa Barbara	5
UPenn	5
University of Oxford	5
Duke University	4
University of Maryland	4
University of Virginia	4
Brandeis University	3
Cornell University	3
UC San Diego	3
UC Santa Cruz	3
University of Illinois	3
University of Texas - Austin	3
University of Washington	3

**Table A6: Mathematics****Graduates of Math PhD Programs  
at Top 25 Research Universities (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
Princeton University	94
Harvard University	66
UC Berkeley	65
MIT	56
University of Chicago	43
Stanford University	37
NYU	26
University of Texas - Austin	23
Caltech	18
UCLA	17
Columbia University	14
Cornell University	14
Moscow State University	12
University of Michigan	12
Yale University	12
UPenn	11
University of Wisconsin-Madison	10
Brown University	9
Rutgers University	9
SUNY - Stony Brook	9
University of Oxford	9
Northwestern University	7
University of Maryland	7
ETH Zurich	6
University of Cambridge	6
University of Illinois - Urbana-Champ..	6
Hebrew University of Jerusalem	5
Steklov Institute of Mathematics	5
Duke University	4
Penn State	4
St. Petersburg State University	4
Tel-Aviv University - Israel	4
UNC Chapel Hill	4
Universite Paris-Sud	4
University of Utah	4
Carnegie Mellon University	3
Emory University	3
Imperial College London	3
Johns Hopkins University	3
Leningrad State University	3
McGill University	3
Michigan State University	3
North Carolina State University	3
Oxford University	3
Purdue University	3
Rice University	3
The Hebrew University of Jerusalem	3
UC Davis	3
University of British Columbia	3
University of Minnesota	3
University of Virginia	3
University of Warwick	3
University of Washington	3
Weizmann Institute of Science	3

**Graduates of Top Math PhD Programs  
Top 25 Liberal Arts Colleges (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
MIT	13
UC Berkeley	13
University of Chicago	11
Brown University	10
Harvard University	9
University of Michigan	9
UCLA	8
Stanford University	7
University of Maryland	7
Cornell University	6
Naval Postgraduate School	6
UNC Chapel Hill	6
University of Illinois	6
University of Texas-Austin	6
University of Washington	6
University of Wisconsin-Madison	6
Dartmouth College	5
Georgia Institute of Technology	5
Princeton University	5
UC Davis	5
UPenn	5
University of Nebraska-Lincoln	5
University of Oregon	5
University of South Carolina	5
Arizona State University	4
Boston University	4
Johns Hopkins University	4
Louisiana State University	4
Michigan State University	4
North Carolina State University	4
Penn State	4
Purdue University	4
Texas A&M University	4
Tufts University	4
University of Iowa	4
University of Pittsburgh	4
University of Utah	4
Yale University	4
Colorado School of Mines	3
Duke University	3
Iowa State University	3
Northwestern University	3
Rice University	3
UC Irvine	3
UC Santa Barbara	3
University of Arizona	3
University of Georgia	3
University of Kentucky	3
University of Minnesota	3

**Table A7: Sociology****Graduates of Sociology PhD Programs at Top 25 Research Universities (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
Duke University	58
UC Berkeley	47
University of Chicago	44
University of Wisconsin-Madison	39
Princeton University	29
University of Michigan	27
Northwestern University	20
Stanford University	20
UCLA	20
NYU	18
Columbia University	17
UNC Chapel Hill	16
UPenn	15
Indiana University	11
Duke University	10
Brown University	8
Cornell University	8
Johns Hopkins University	8
University of Texas - Austin	8
Penn State	7
University of Arizona	6
University of Washington	6
Ohio State University	5
Yale University	5
MIT	4
SUNY - Binghamton	4
UC Irvine	4
Boston University	3
UC Santa Barbara	3
University of Southern California	3

**Graduates of Sociology PhD Programs at Top 25 Liberal Arts Colleges (minimum 3)**

<u>PhD School</u>	<u>Freq.</u>
UC Berkeley	11
UC Santa Barbara	8
CUNY Graduate Center	6
Northwestern University	6
University of Virginia	5
University of Wisconsin-Madison	5
Stanford University	4
UMass Amherst	4
UPenn	4
University of Chicago	4
Harvard University	3
UCLA	3