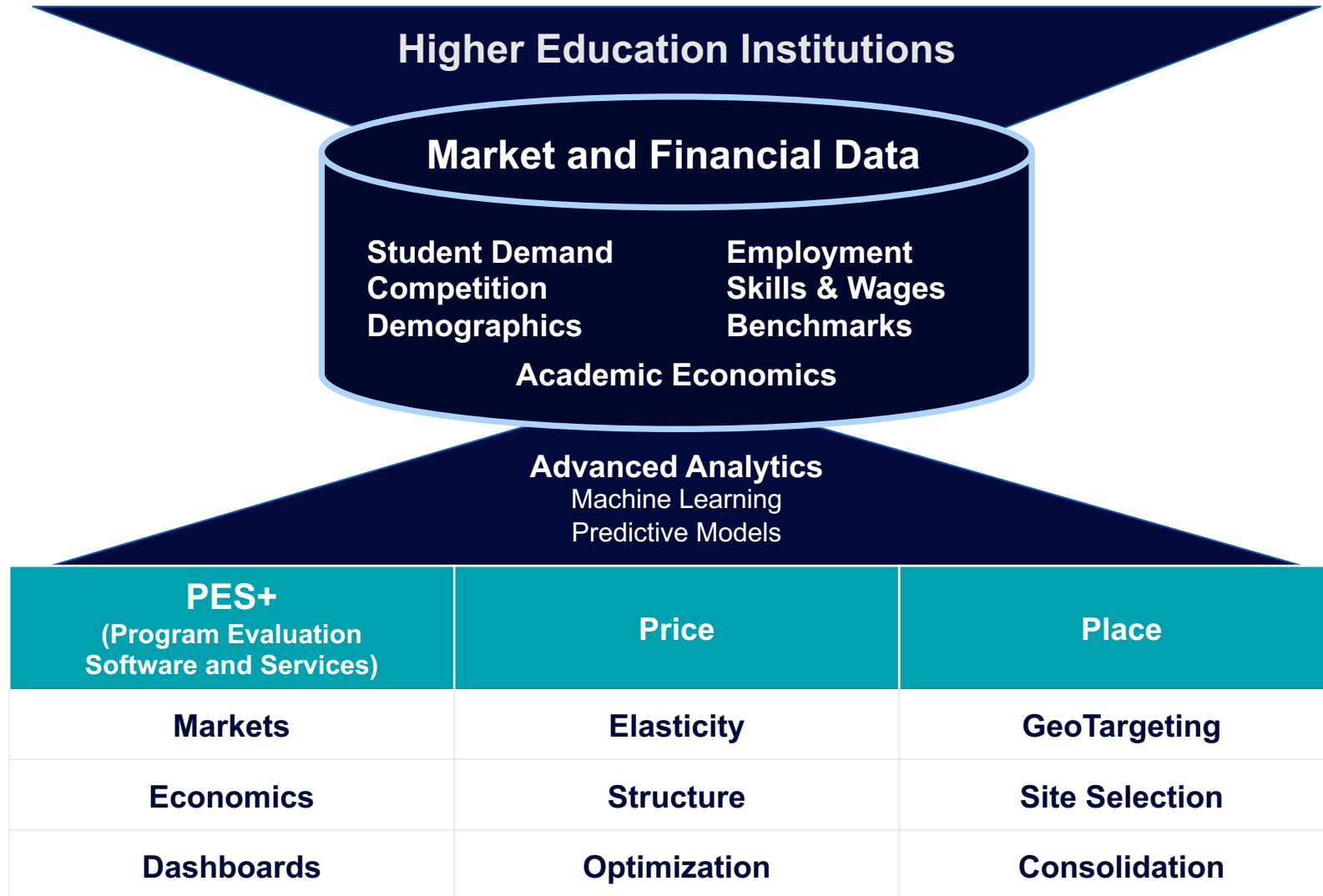




**GRAY**  
ASSOCIATES

## **Demand for Higher Education Programs**

Results through January 2022



## Agenda

- Google Search Trends
- Employment
- International Student Demand
- Non-Degree Courses
- Program of the Month
- Summary

The background features a black field with several bright blue light beams originating from the top-left corner and fanning out towards the right. The beams create a sense of depth and focus, highlighting the central text.

# Google Search Trends

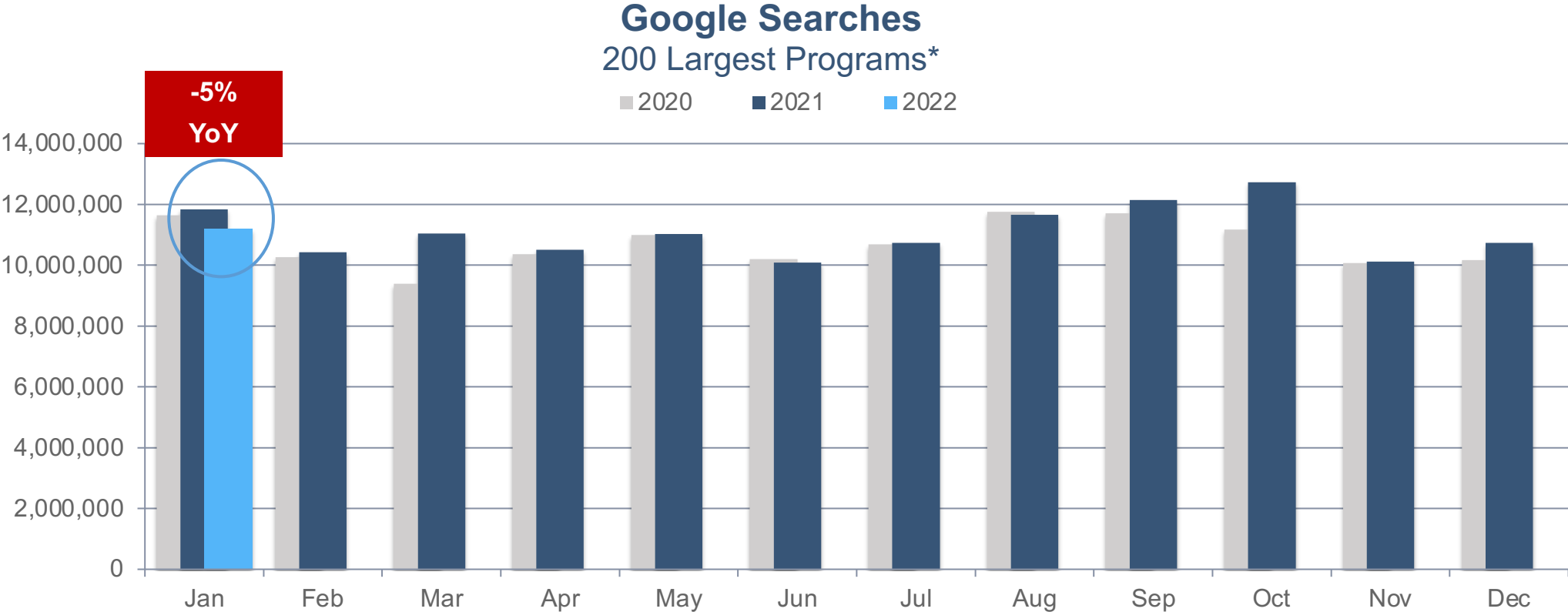
# Google Three-Year Search Trends



\*Google Searches for 20 keywords for each of the 200 largest programs based on IPEDS completion volume.

# Google Search Trends: Programs

Google program searches fell 5% year-over-year in January.

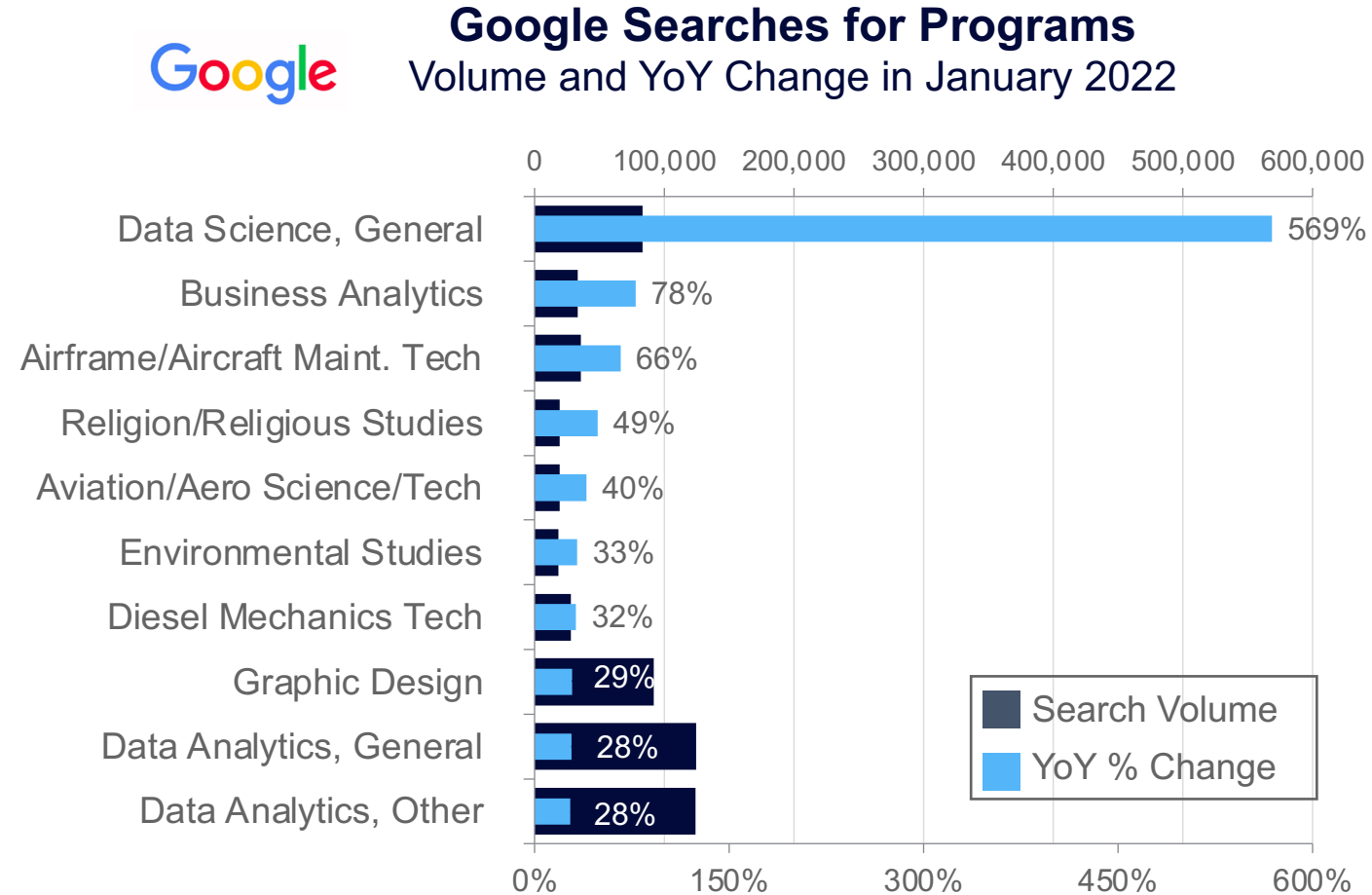


\*Google Searches for 20 keywords for each of the 200 largest programs based on IPEDS completion volume.

## Google: Fastest-Growers

In January, searches for Data Science rose **569% year-over-year.**

- Other data-analytics fields saw double-digit growth:
  - Business Analytics
  - Data Analytics, General
  - Data Analytics, Other
- Two trades programs were popular:
  - Aircraft Tech
  - Diesel Tech
- Religion continues to crop up as a fast-grower

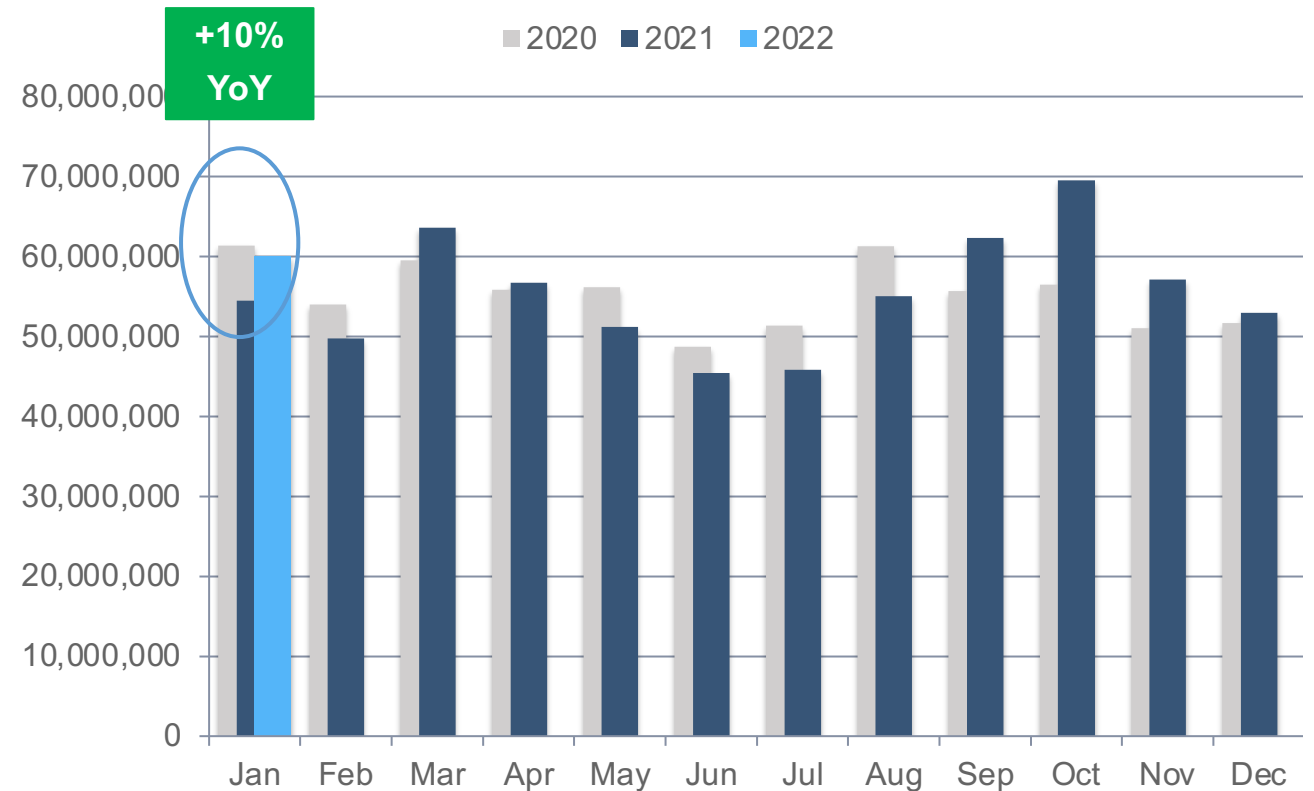


## Google Brand Search

### Searches for college brands rose 10% in January.

- Searches for higher education brands have risen every month since August.
- Some students may be shifting away from picking programs and starting to emphasize the college or university first.

### Google Brand Searches Search Volume



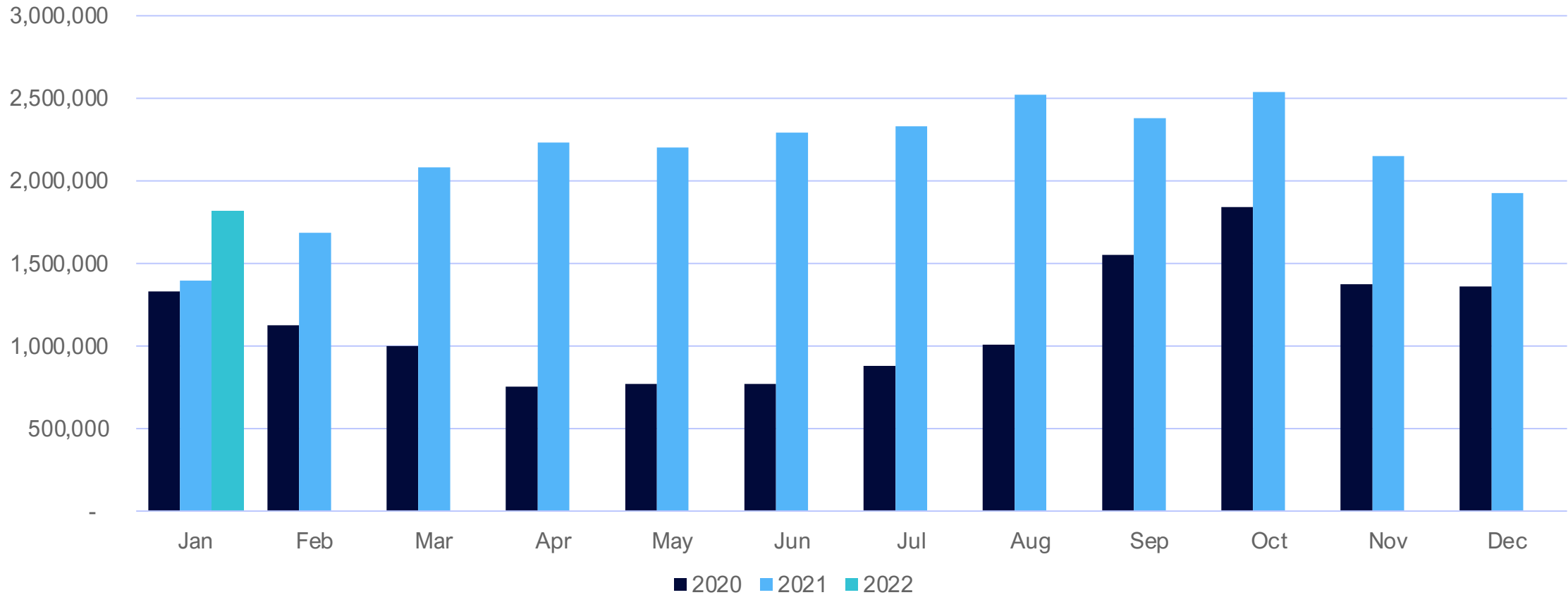


A blue light beam originates from the top left corner of the image and shines downwards and to the right, illuminating the word "Employment". The beam is bright and tapers as it moves across the dark background.

**Employment**

**In January 2022, job postings grew 30% year-over-year.**

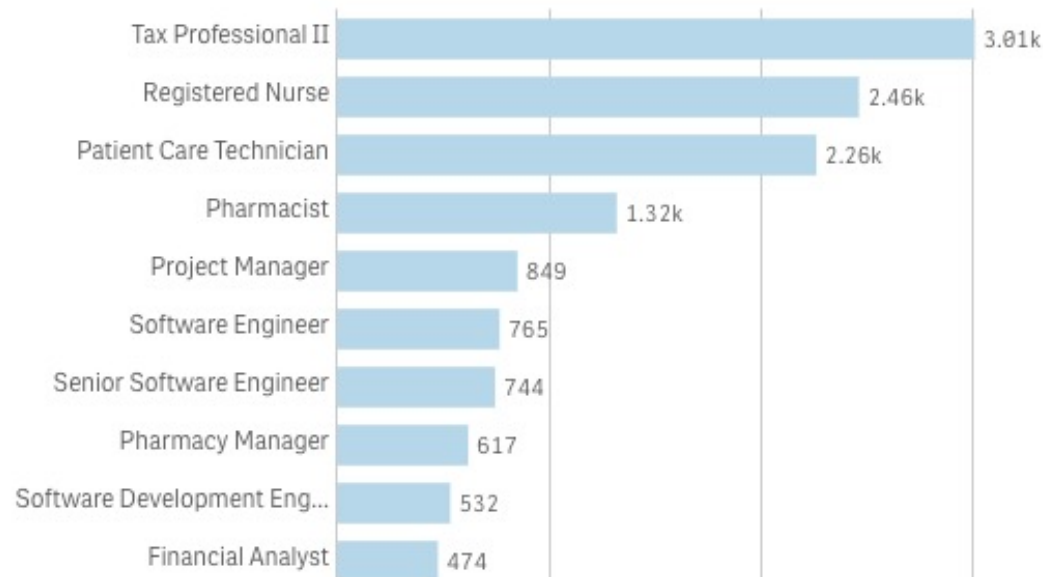
### Job Postings by Month



## Job Posting Volumes: January 2022

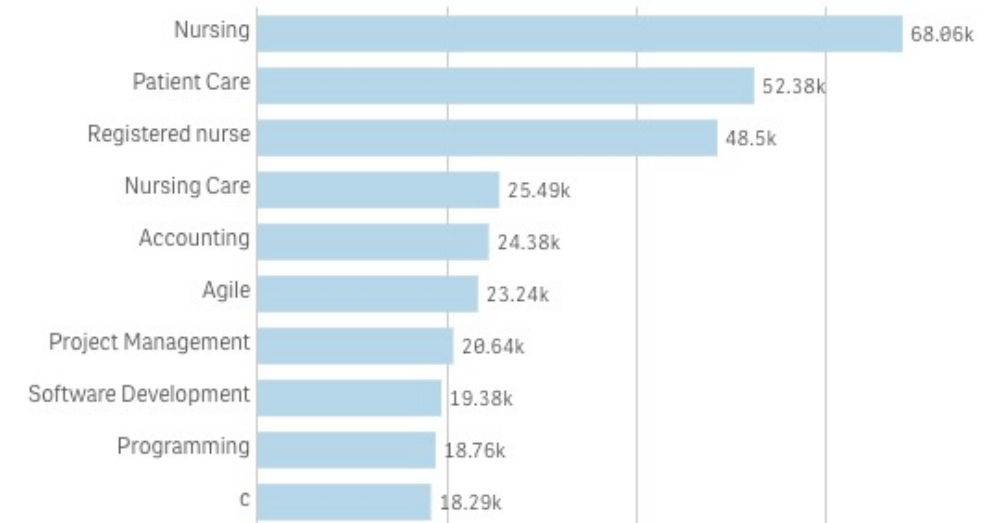
In January, the largest number of job postings requesting a post-secondary degree were for Tax Professionals.

Job Postings by Job Posting Title



The most in-demand skills were in Nursing.

Job Postings by Skills

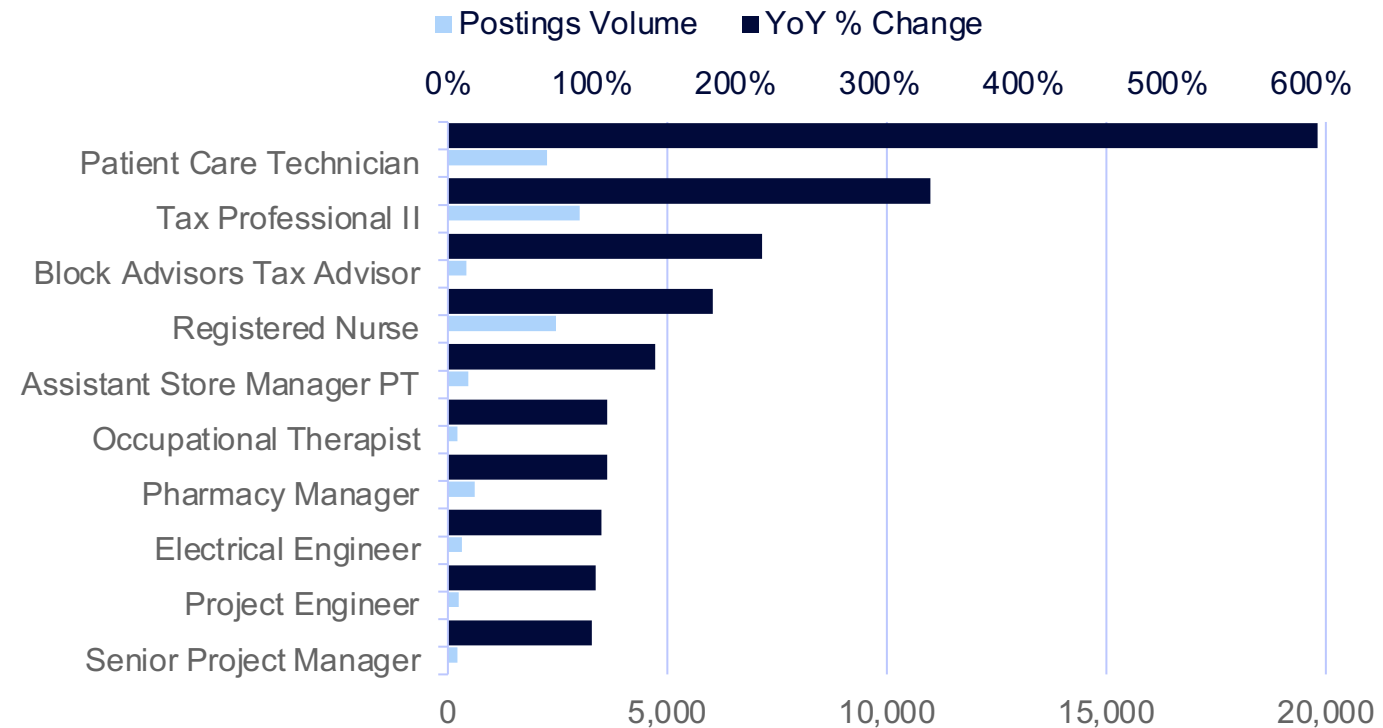


## Job Posting Trends: January 2022

### Patient Care Tech postings increased 604%.

- Tax season is underway: tax won two top 10 slots.
- Healthcare won four of the top 10.
  - Patient Care Tech
  - RN
  - OT
  - Pharmacy Manager
- Part time store managers were in high demand.
- Engineers won three spots in the top 10.

### Monthly Change and Total Volume Job Postings





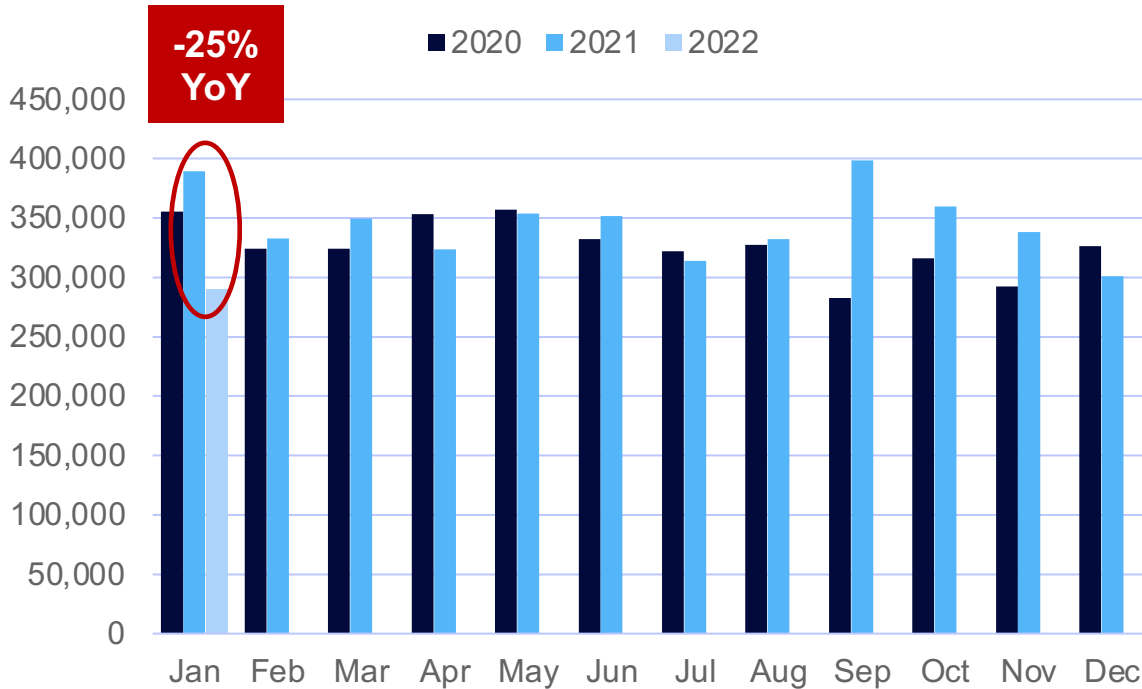
# International Page Views

# International Student Demand

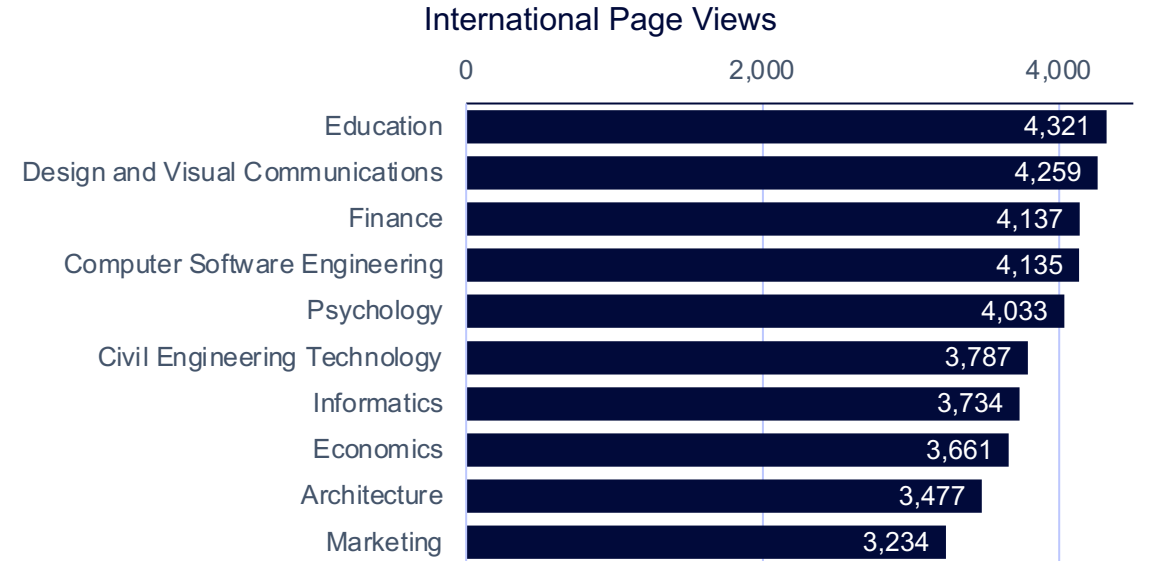
International student interest in U.S. programs decreased 25% YoY in January.

Excluding the top 10, the most-viewed programs were Education and Design/Visual Communications.

International Page Views



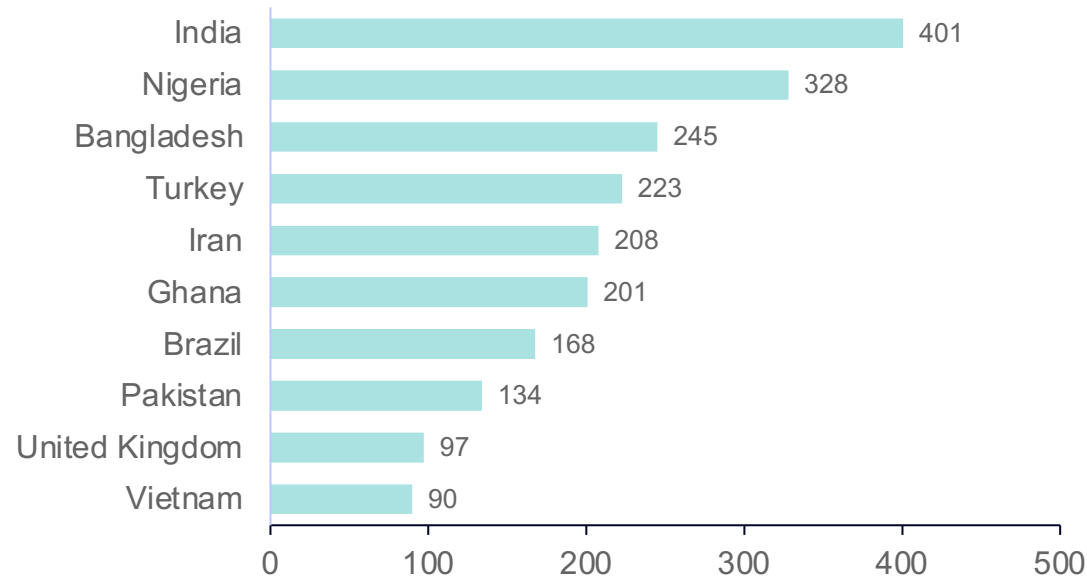
Top 11-20 Programs: January 2022



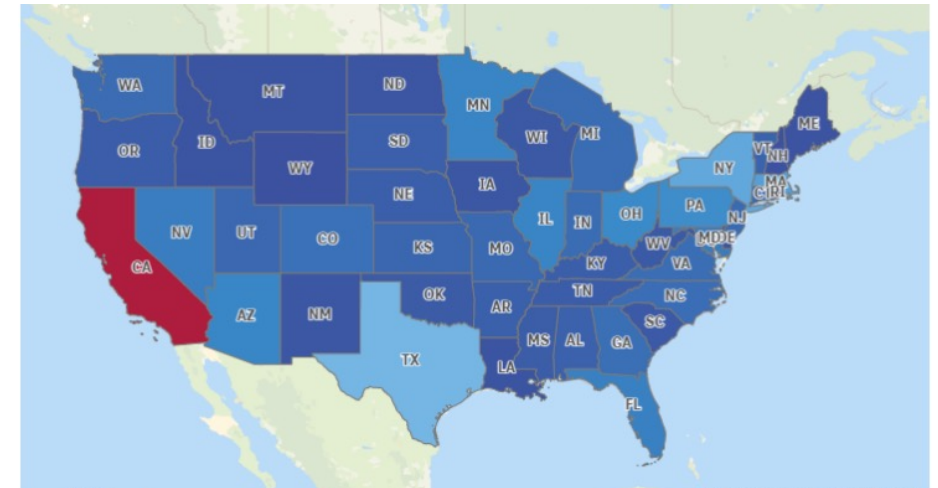
# International Page Views: Education

India led the page views for Education.

**International Page Views by Originating Country**  
Education, January 2022



California was the most popular destination.



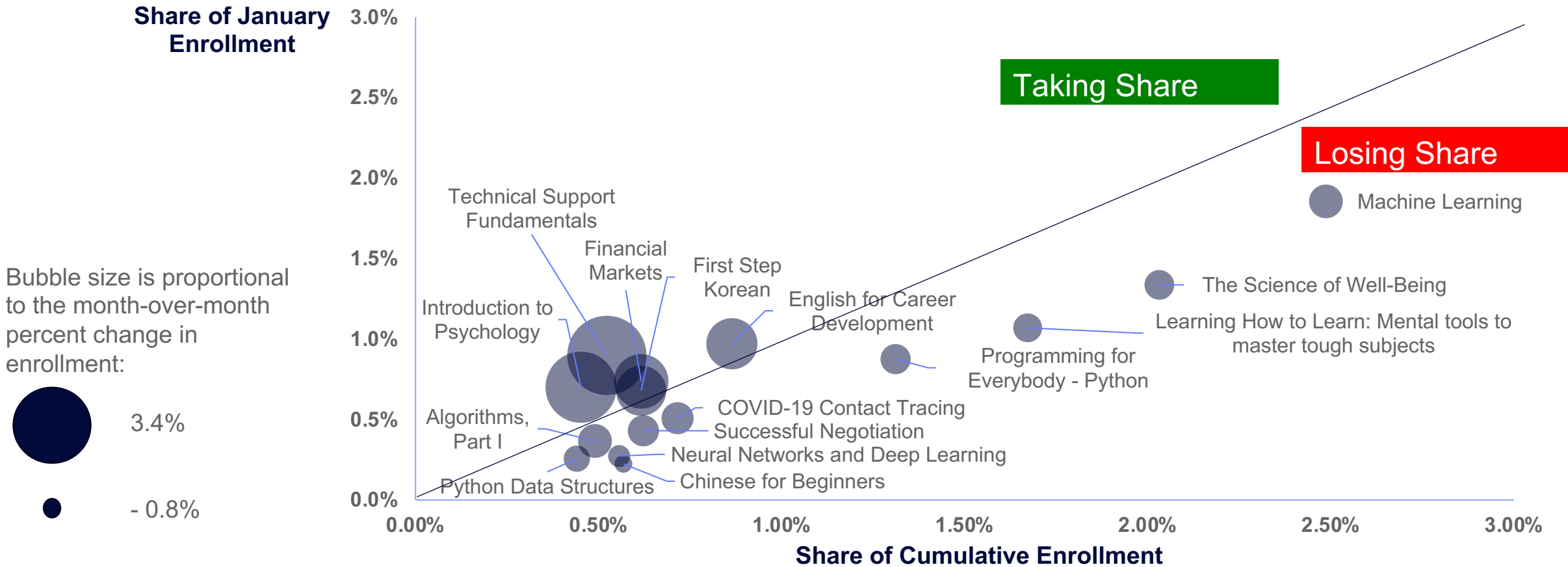
A bright blue light beam originates from the top left corner and extends diagonally across the dark blue background, creating a sense of focus and direction.

# Non-Degree Courses



# Coursera: Largest Courses

January 2022 vs. Cumulative Enrollment



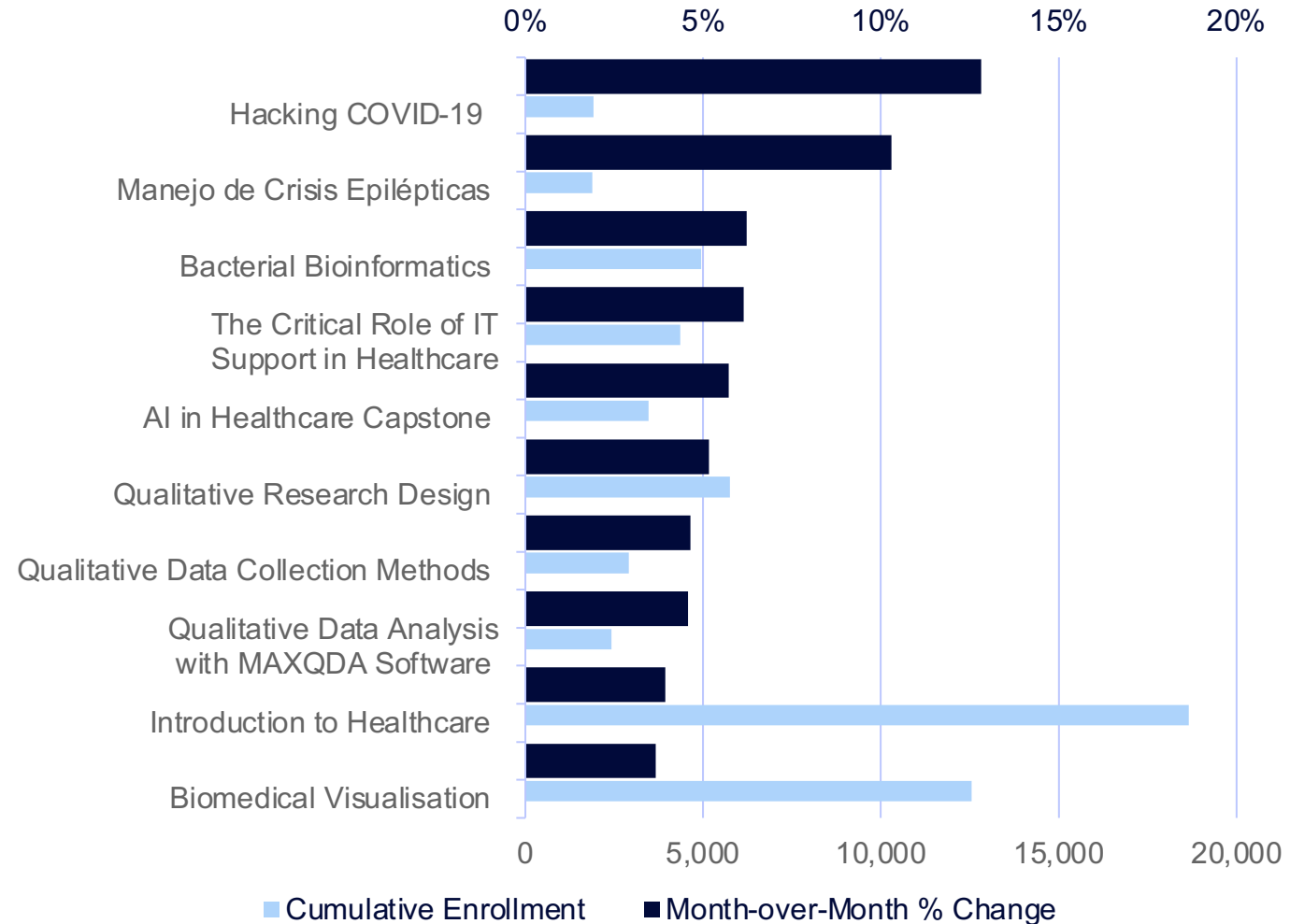
\*Excludes programs with a cumulative enrollment less than 65,000.

## Health Informatics grew 17%.

This was the fastest-growing Coursera category.

- Within the category, Hacking COVID-19 led with 13% month-over-month growth.
- A Spanish-language program on Managing Epilepsy also grew over 10%.
- Two very large programs continued to grow:
  - Introduction to Healthcare
  - Biomedical Visualization

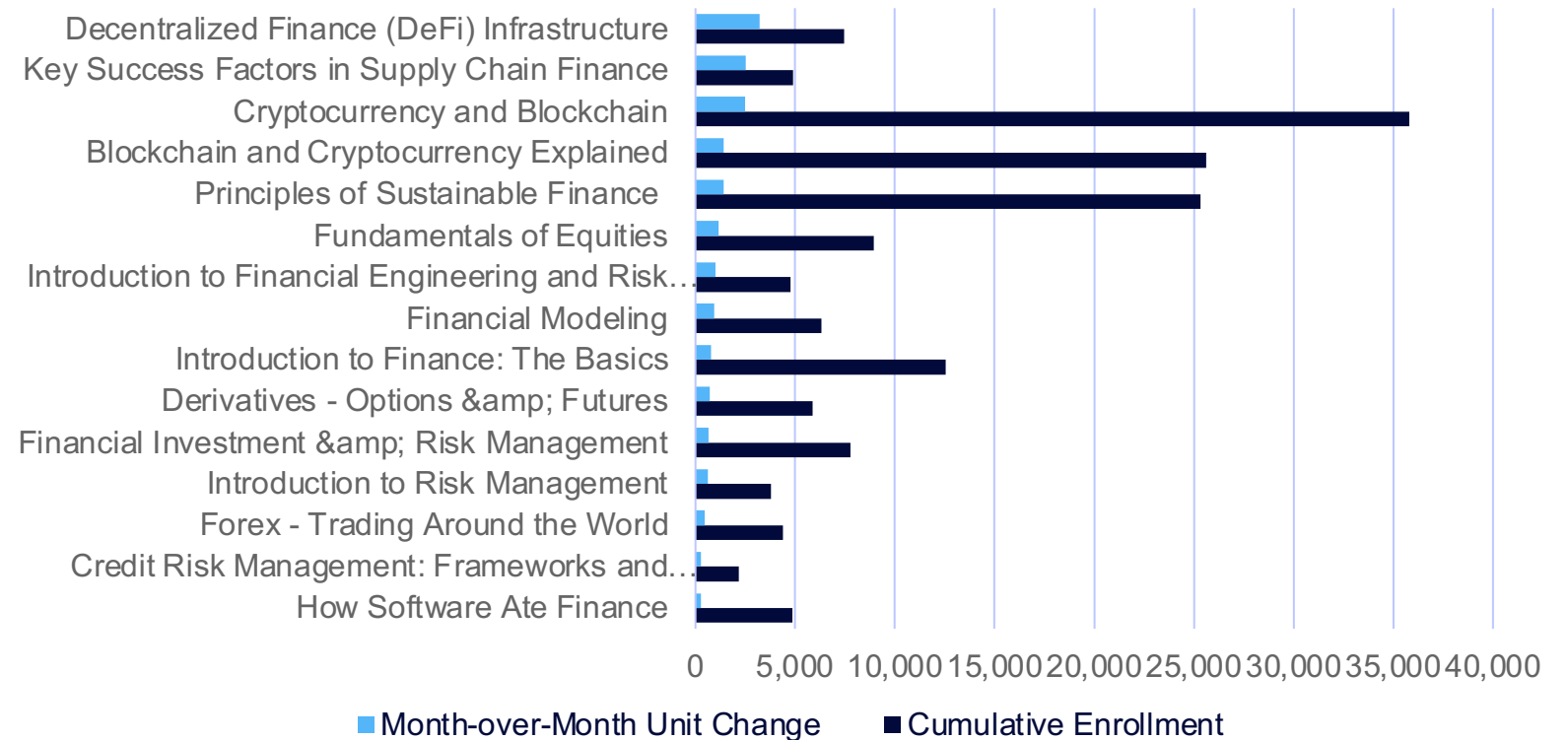
**Monthly Growth & Cumulative Enrollment  
January 2022**



## On Coursera, interest is growing in Finance courses.

**Of the five finance courses with the highest growth in January, three are related to Decentralized Finance.**

**Cumulative Enrollment and January Unit Change**  
Finance Category





# Program of the Month

## Integrated Program Evaluation



# Program Markets: Program Rank

We score on Student Demand, Employment, Competitive Intensity, and Degree Fit.

## National Program Ranking Bachelor's Award Level

Percentiles by CIP  
(Double-click Field headers to change sorting.)

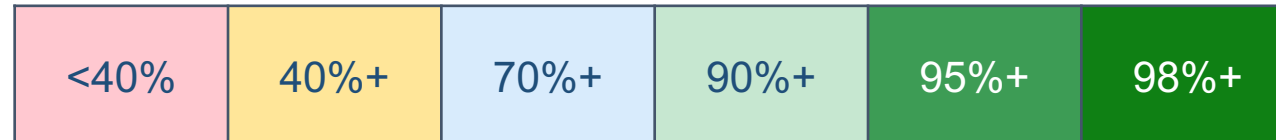
| CIP                                                 | Total Percentile | Student Demand Percentile | Competitive Intensity Percentile | Employment Percentile | Degree Fit Percentile |
|-----------------------------------------------------|------------------|---------------------------|----------------------------------|-----------------------|-----------------------|
| 51.3801 Registered Nursing                          | 100              | 100                       | 96                               | 99                    | 50                    |
| 14.1901 Mechanical Engineering                      | 99               | 99                        | 93                               | 98                    | 50                    |
| 26.0101 Biology/Biological Sciences, Gen'l          | 99               | 99                        | 93                               | 93                    | 50                    |
| 52.0201 Business Admin. and Mgmt, General           | 99               | 99                        | 87                               | 99                    | 50                    |
| 11.0701 Computer Science                            | 99               | 99                        | 36                               | 99                    | 50                    |
| 52.0801 Finance, General                            | 99               | 99                        | 30                               | 99                    | 50                    |
| 11.0103 Information Technology                      | 99               | 99                        | 21                               | 97                    | 50                    |
| 52.0301 Accounting                                  | 99               | 99                        | 8                                | 99                    | 50                    |
| 52.1401 Marketing/Marketing Mgmt, General           | 99               | 99                        | 1                                | 98                    | 50                    |
| 14.0801 Civil Engineering, General                  | 99               | 98                        | 90                               | 99                    | 50                    |
| 30.7102 Business Analytics                          | 99               | 98                        | 87                               | 93                    | 50                    |
| 52.0203 Logistics, Materials, and Supply Chain Mgmt | 99               | 98                        | 36                               | 99                    | 50                    |
| 45.0601 Economics, General                          | 99               | 98                        | 30                               | 94                    | 50                    |
| 14.1001 Electrical/Electronics Engin'g              | 99               | 98                        | 21                               | 99                    | 50                    |
| 45.0603 Econometrics and Quantitative Economics     | 99               | 97                        | 97                               | 88                    | 50                    |
| 14.0201 Aero/Astro/Space Engineering                | 99               | 96                        | 99                               | 96                    | 50                    |
| 26.0102 Biomedical Sciences, General                | 99               | 96                        | 93                               | 97                    | 50                    |
| 14.0701 Chemical Engineering                        | 99               | 94                        | 98                               | 91                    | 50                    |
| 14.3501 Industrial Engineering                      | 99               | 94                        | 96                               | 98                    | 50                    |
| 42.0101 Development, General                        | 99               | 99                        | 97                               | 99                    | 50                    |

Total Percentile 0 20+ 40+ 70+ 90+ 95+ 98+ 100  
 Total Score -37 -15 -11 5 15 22 29 140

## Program Scorecard: Percentiles

All data are color-coded by their percentile rank in the local market compared to over 1,400 IPEDS programs (CIP codes).

### Percentile Color-Code:



## Program Scorecard: Student Demand

**Business Analytics scores in the 98<sup>th</sup> percentile for Student Demand.**

- Many international students are interested in Business Analytics programs in the U.S.
- High volumes of students are completing this program on-campus.
- Online completions rank in the 94<sup>th</sup> percentile.
- Growth is strong across all data sources.

| Student Demand           |      |                                                 |        |       |
|--------------------------|------|-------------------------------------------------|--------|-------|
| Score: 25 Percentile: 98 |      |                                                 |        |       |
| Category                 | Pctl | Criterion                                       | Value  | Score |
| Size                     | 97   | Inquiry Volume (12 Months)                      | 11,689 | 3     |
|                          | 99   | Int'l Page Views (12 Months)                    | 27,551 | NS    |
|                          | 55   | Google Search Volume (3 Months)*                | 81,220 | 4     |
|                          | 97   | On-ground Completions at In-Market Institutions | 8,326  | 9     |
|                          | 94   | Online Completions by In-Market Students        | 285    | 2     |
|                          | 96   | Sum of On-ground and Online Completions         | 8,611  | 2     |
| Growth                   | 98   | Inquiry Volume YoY Change (Units)               | 5,039  | 1     |
|                          | 96   | Google Search YoY Change (Units)*               | 21,439 | 0     |
|                          | 99   | Completion Volume YoY Change (Units)            | 1,506  | 3     |
|                          | 89   | Inquiry Volume YoY Change (%)                   | 76%    | NS    |
|                          | 96   | Google Search YoY Change (%)*                   | 36%    | 0     |
|                          | 85   | Completion Volume YoY Change (%)                | 21%    | 1     |

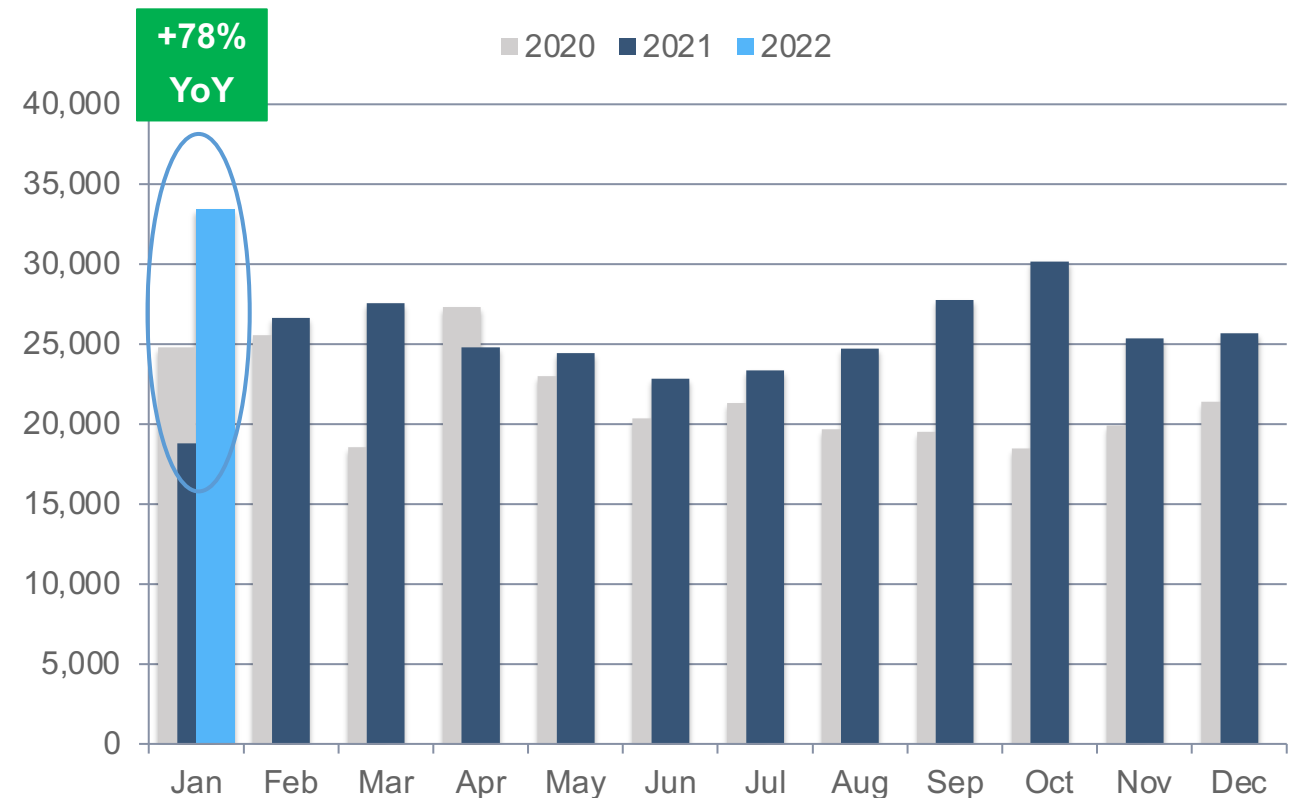


## Google: Business Analytics

Searches for business analytics programs rose 78%.

- Searches for this program have been rising since May 2021.
- In January, growth rates more than doubled.

**Google Searches**   
Search Volume for Business Analytics



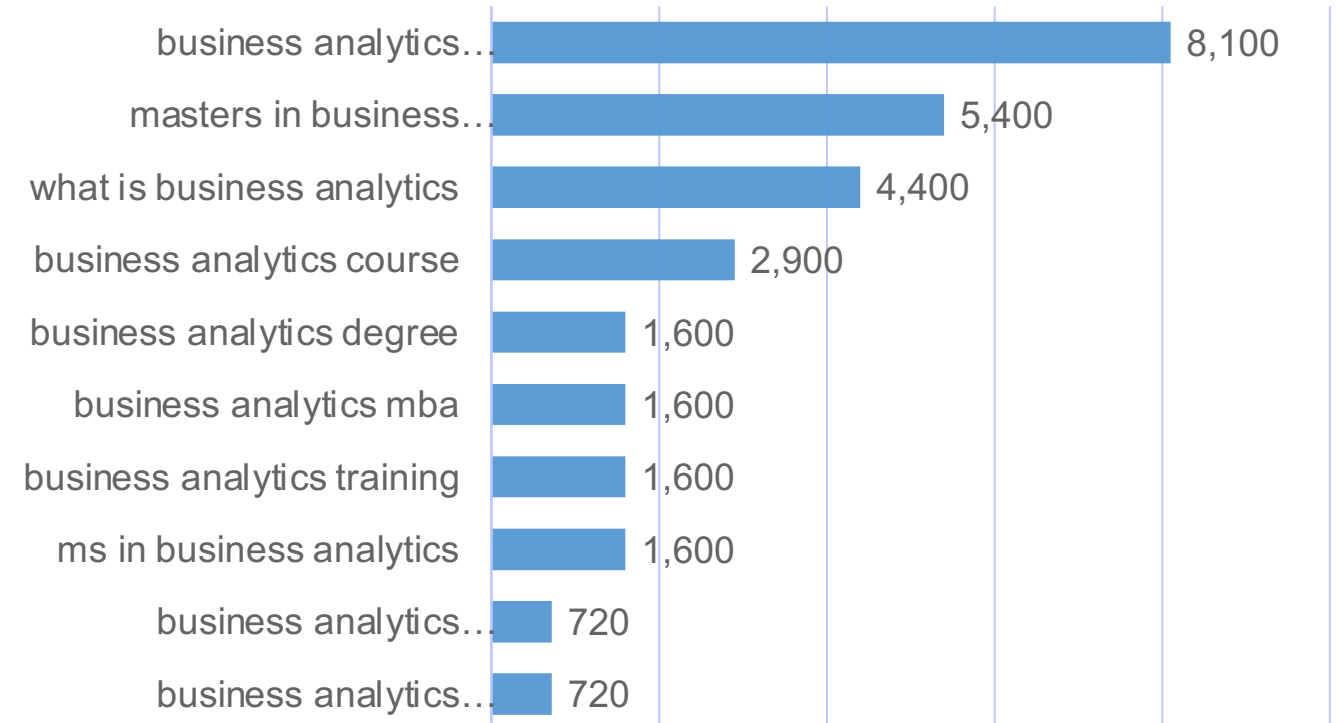
## Most-Searched Keywords: Business Analytics

**Business Analytics Certificate had 8,100 searches in January.**

- The Master's in Business Analytics came in second, which is remarkable for a graduate program.
- Business analytics MBA also made a strong showing.
- These graduate business analytics offerings are likely to cannibalize traditional MBA programs.

### Keyword Search Volumes

Business Analytics  
January 2022



## Program Scorecard: Employment

**Business Analytics ranks in the 93<sup>rd</sup> percentile for Employment.**

- Direct Preparation opportunities are healthy.
- 3-year historical growth ranks in the 81<sup>st</sup> percentile.
- Saturation is high.
- ACS wages for Bachelor's degree graduates in Business Analytics ranks in the 91<sup>st</sup> percentile.

### Employment\*

Score: 10 Percentile: 93

| Category                                             | Pctl | Criterion                          | Value     | Score |
|------------------------------------------------------|------|------------------------------------|-----------|-------|
| Size: Direct Prep                                    | 87   | Job Postings Total (12 Months)*    | 26,816    | 1     |
|                                                      | 83   | BLS Current Employment*            | 90,386    | 1     |
|                                                      | 84   | BLS Annual Job Openings*           | 8,984     | 0     |
| Size: Bachelors with ACS                             | 94   | Job Postings Total (12 Months)*    | 3,970     | NS    |
|                                                      | 94   | BLS Current Employment*            | 41,856    | NS    |
| Growth (Direct Prep)                                 | 86   | BLS 1-Year Historical Growth*      | 1.3%      | 0     |
|                                                      | 81   | BLS 3-Year Historic Growth (CAGR)* | 3.3%      | 2     |
|                                                      | 82   | BLS 10-Year Future Growth (CAGR)*  | 1.3%      | NS    |
| Saturation (Direct Prep)                             | 38   | Job Postings per Graduate*         | 0.8       | -1    |
|                                                      | 46   | BLS Job Openings per Graduate*     | 0.4       | -1    |
| Wages (Direct Prep)                                  | 66   | BLS 10th-Percentile Wages*         | \$45,584  | NS    |
|                                                      | 65   | BLS Mean Wages*                    | \$74,528  | NS    |
| American Community Survey Bachelor's Degree Outcomes | 91   | Wages (Age < 30)                   | \$61,267  | 6     |
|                                                      | 80   | Wages (Age 30-60)                  | \$109,745 | 4     |
|                                                      | 24   | % with Any Graduate Degree         | 24%       | NS    |
|                                                      | 35   | % with Masters                     | 22%       | NS    |
|                                                      | 11   | % with Doct/Prof Degree            | 2%        | NS    |
|                                                      | 65   | % Unemp. (Age <30)**               | 3%        | -1    |
|                                                      | 73   | % Unemp. (Age 30-60)**             | 2%        | -1    |
|                                                      | 82   | % in Direct Prep Jobs              | 14%       | NS    |

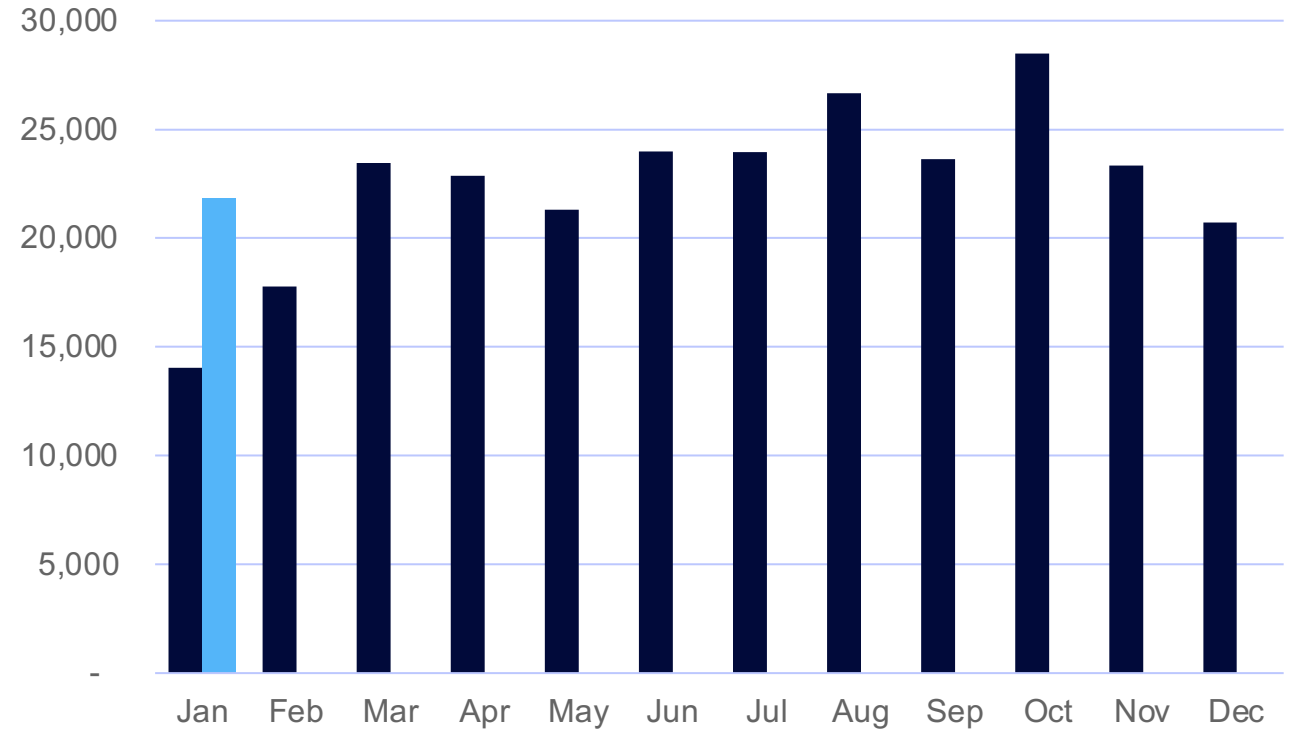
## Job Postings: Business Analytics

In January 2022, job postings increased 55%.

### Job Postings Volume

Business Analytics  
January 2022

■ 2021 ■ 2022

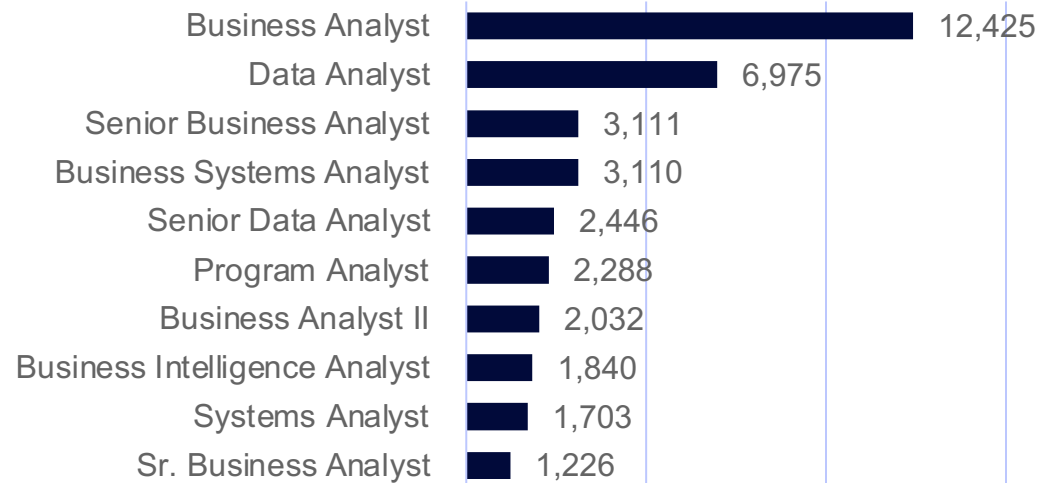


## Job Postings: Business Analytics

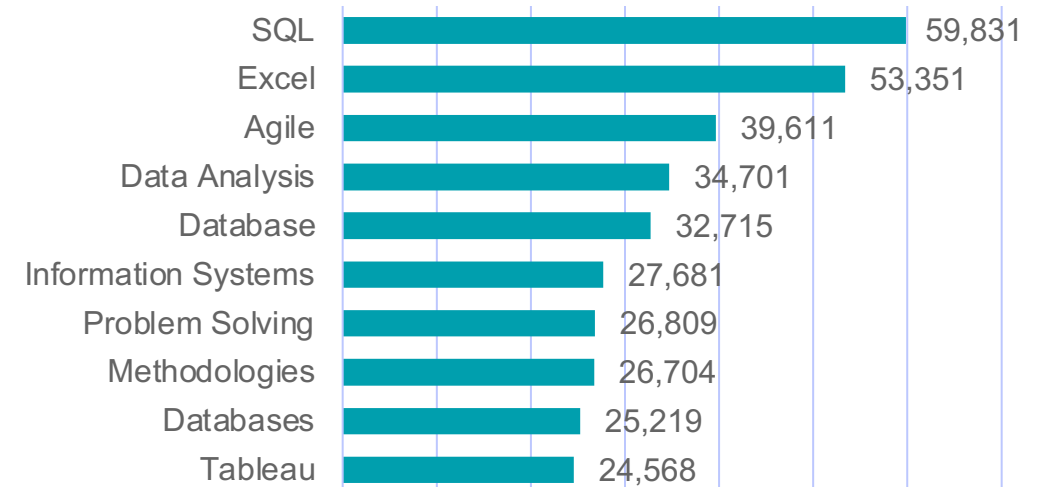
From 2021 to 2022, Business Analysts with SQL skills were in high demand.

- The most in-demand skill was SQL, followed by Excel and Agile.

**Top Job Titles**  
Total Volume 2021-22



**Top Skills**  
Total Volume 2021-22



## Program Scorecard: Competitive Intensity

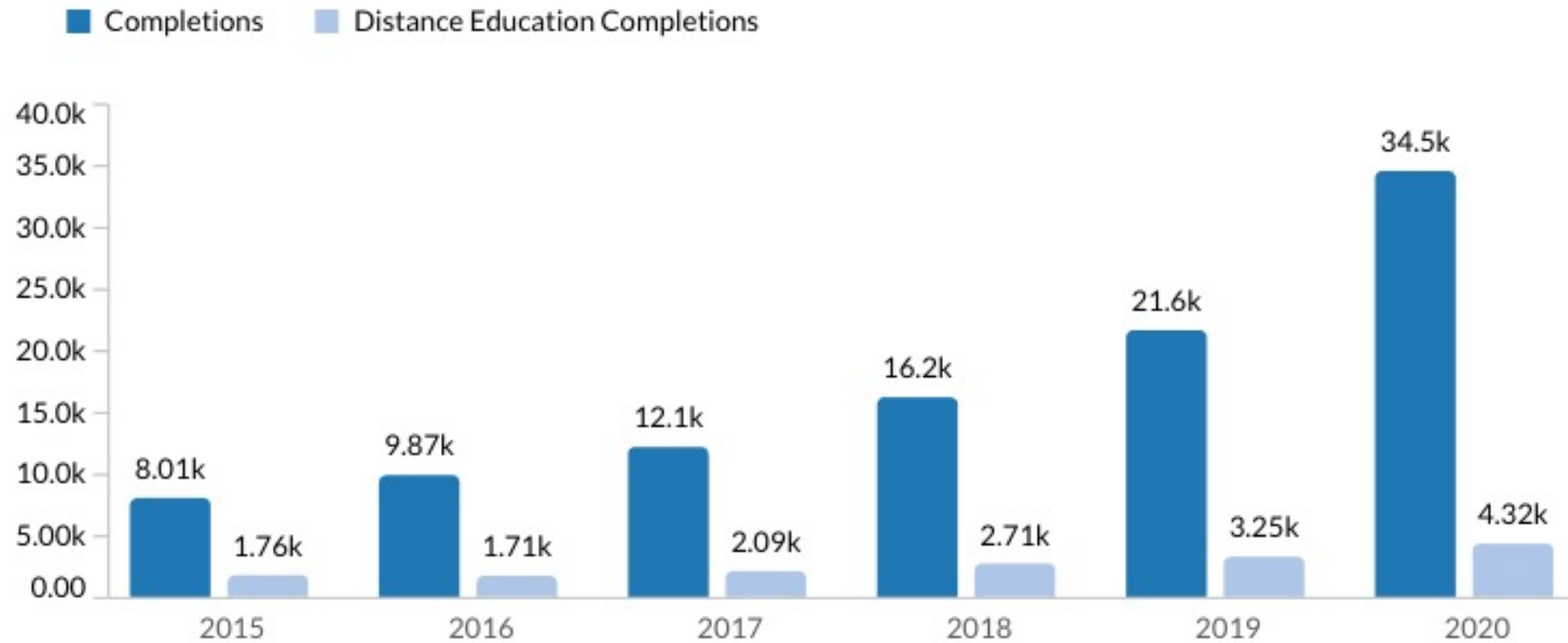
**Business Analytics is in the 87<sup>th</sup> percentile for competitive intensity.**

- Many new competitors entered the market.
- Program size is strong and growing.
- Google cost per click is high.
- National online competition is moderate.

| Competitive Intensity           |      |                                               |         |       |
|---------------------------------|------|-----------------------------------------------|---------|-------|
| Score: 3 Percentile: 87         |      |                                               |         |       |
| Category                        | Pctl | Criterion                                     | Value   | Score |
| Volume of In-Market Competition | 94   | Campuses with Graduates**                     | 157     | 0     |
|                                 | 97   | Campuses with Grads YoY Change (Units)**      | 8       | -2    |
|                                 | 95   | Institutions with Online In-Market Students** | 16      | NS    |
| In-Market Program Sizes         | 95   | Average Program Completions                   | 53      | 4     |
|                                 | 88   | Median Program Completions                    | 24      | 0     |
|                                 | 97   | YoY Median Prog. Compl. Change (Units)        | 7       | 2     |
|                                 | 91   | YoY Median Prog. Compl. Change (%)            | 47%     | 2     |
| In-Market Saturation            | 46   | Average Cost per Inquiry**                    | \$47.00 | 0     |
|                                 | 91   | Google Search * Cost per Click**              | \$23.00 | -3    |
|                                 | 88   | Google Competition Index**                    | 65%     | 0     |
| National Online Competition     | 96   | National Online Institutions (Units)**        | 21      | NS    |
|                                 | 79   | Nat'l Online % of Institutions                | 9%      | NS    |
|                                 | 66   | Nat'l Online % of Completions                 | 3%      | NS    |

# Business Analytics Completions

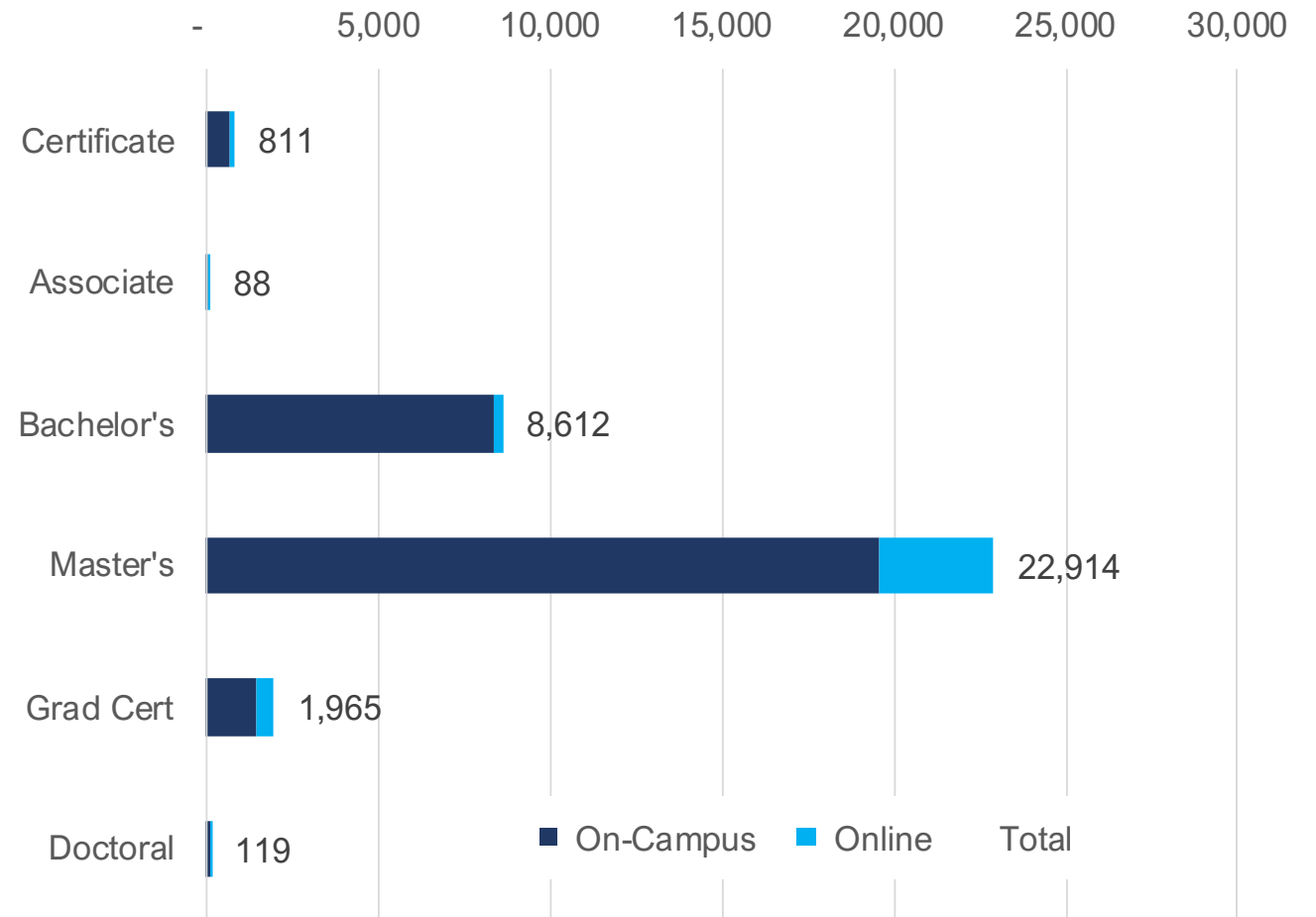
2015-2020 Completions for All Award Levels Combined



## Business Analytics

### 2020 Completions by Modality and Award Level

- Master's degrees account for about two-thirds of these completions.
- Bachelor's degrees account for most of the rest.
- Master's degree and graduate certificates are growing extremely quickly, with 5-year CAGRs of more than 45%.
- Online has a minimal share of these completions at most levels.
- Online growth has been less dramatic than on-campus, but both are very high.

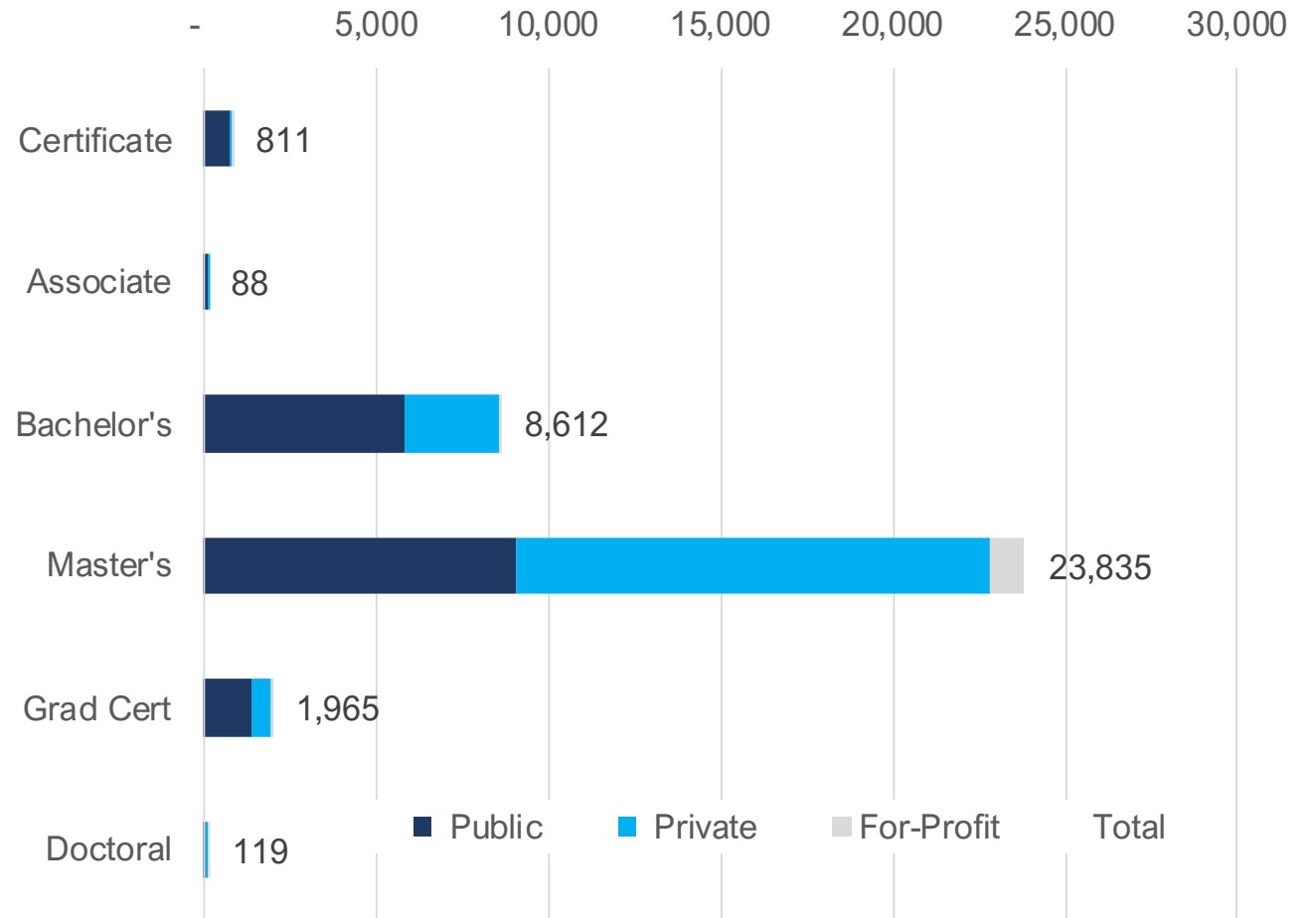




# Business Analytics

## 2020 Completions by Sector and Award Level

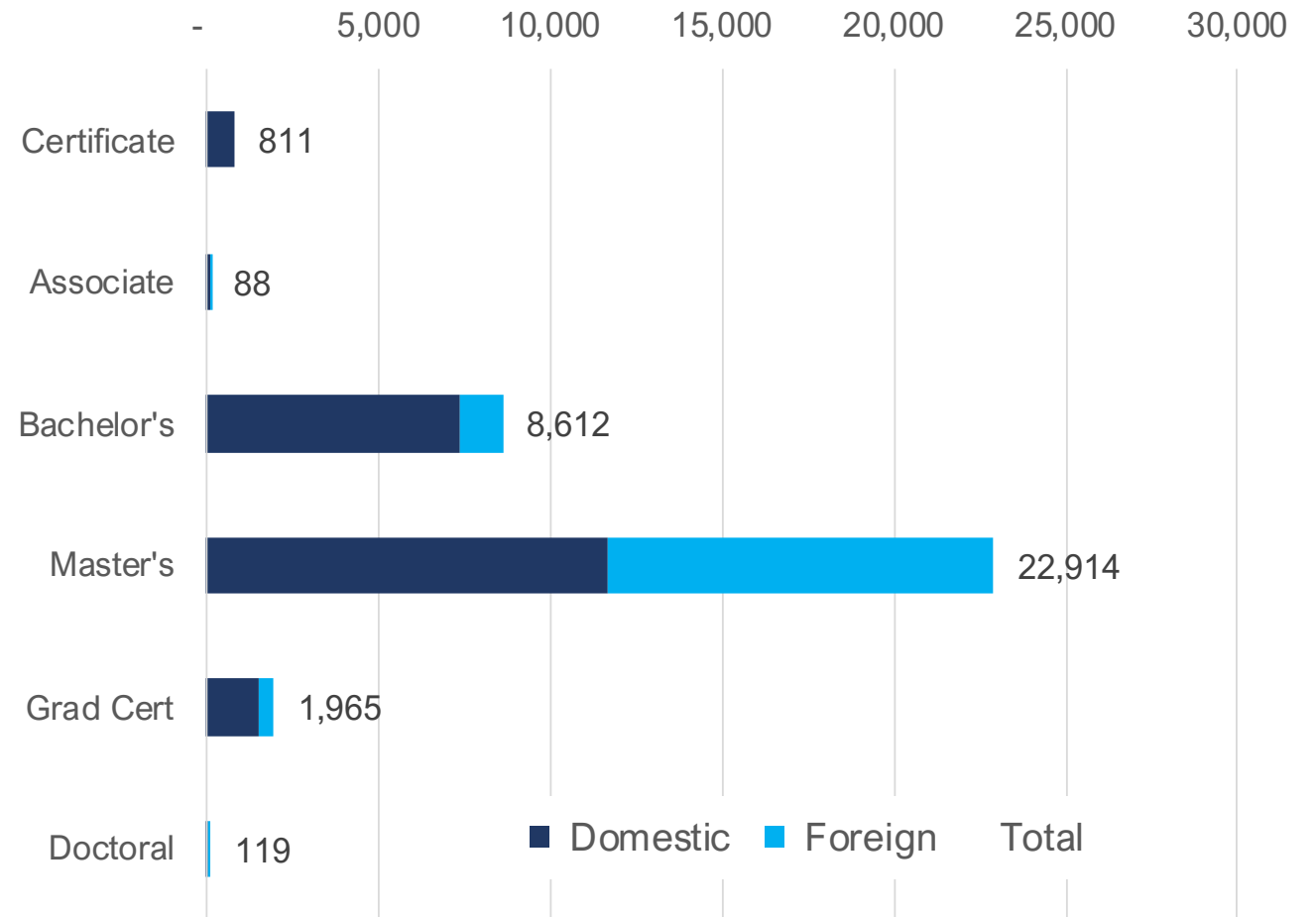
- Public institutions grant the most Bachelor's degrees and certificates in Business Analytics.
- Private not-for-profit institutions grant the most Master's degrees in Business Analytics.
- For-profit institutions have a very small presence in these programs.



## Business Analytics

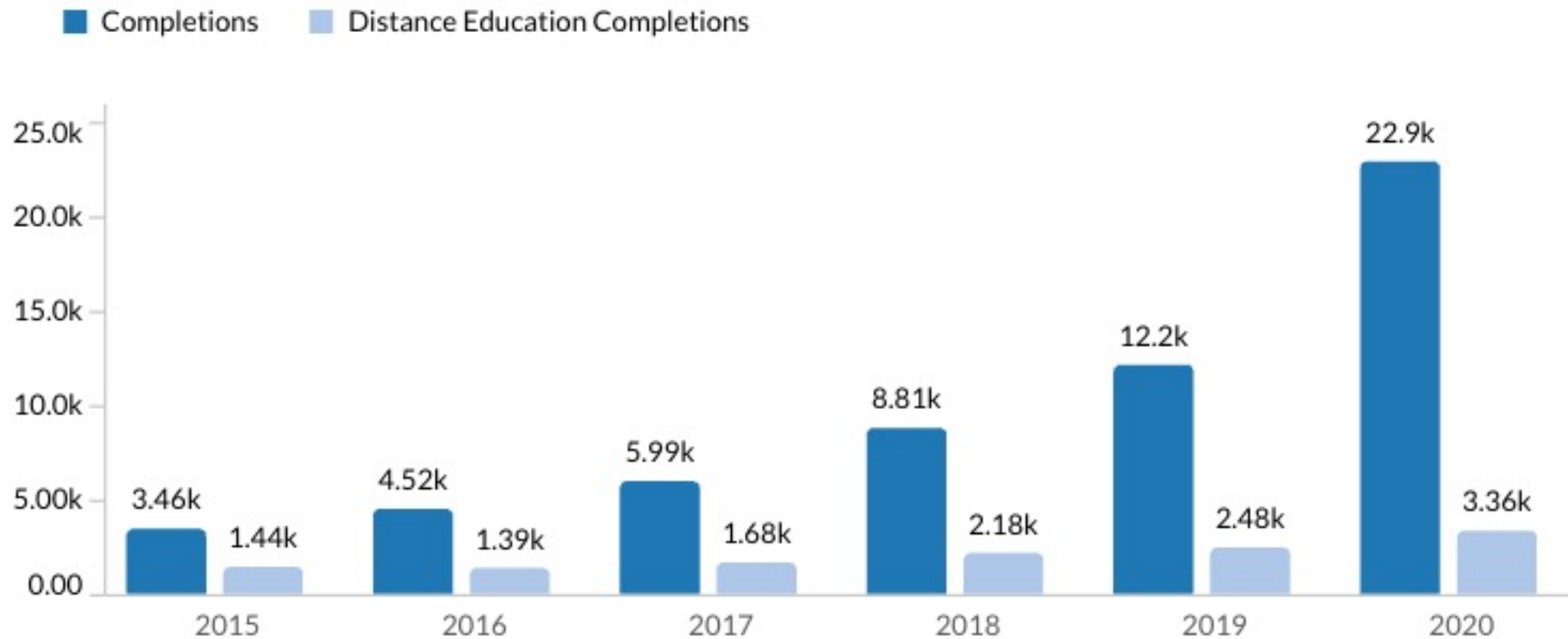
### 2020 Completions by Nationality and Award Level

- At the Master's level, the number of foreign and domestic students are nearly equal.
- While the number of doctoral graduates in Business Analytics is small, these students are mostly foreign.
- In contrast, most Business Analytics completions at undergraduate levels or for graduate certificates are by domestic students.



# Master's Degrees in Business Analytics

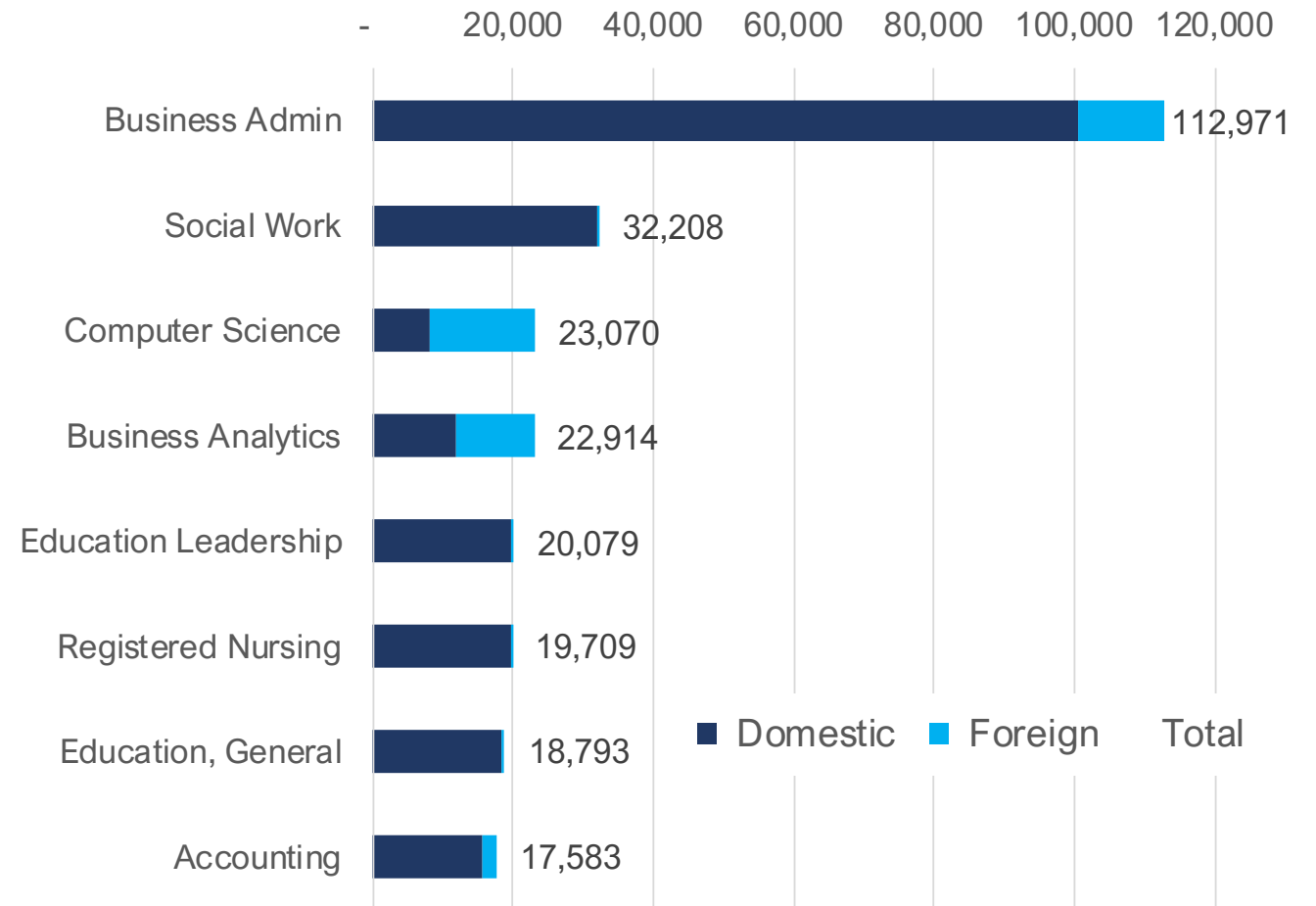
## 2015-2020 Master's Completions by Modality



## Biggest Master's Programs

### 2020 Completions by 6-Digit CIP

- Business Analytics is now the #4 program in the country for Master's degrees awarded.
- Master's degrees in Business Analytics have been growing 46% annually over the past five years.



## Business Analytics

### Top 10 Master's Programs (2020 Completions)

- Four of the top 10 programs are at highly selective private institutions that accept less than 10% of freshman applicants.
- Three of the top 10 serve student populations that are at least 80% foreign.
- One program is at the biggest public online Master's-degree provider.
- Only two of these top-10 Master's in Business Analytics programs are at top-10 institutions for all Master's-degrees (NYU and Columbia).

| Campus                                            | 2020 Completions | IPEDS: % of Applicants Accepted | IPEDS: % International - Nonresident |
|---------------------------------------------------|------------------|---------------------------------|--------------------------------------|
| Columbia University in the City of New York       | 1,540            | 7%                              | 50%                                  |
| University of Chicago                             | 985              | 7%                              | 25%                                  |
| The University of Texas at Dallas                 | 829              | 79%                             | 87%                                  |
| New York University                               | 813              | 21%                             | 17%                                  |
| University of California-Los Angeles              | 724              | 14%                             | 20%                                  |
| Massachusetts Institute of Technology             | 676              | 7%                              | 41%                                  |
| Arizona State University Campus Immersion         | 636              | 88%                             | 47%                                  |
| Northwestern University                           | 569              | 9%                              | 31%                                  |
| Northeastern University Lifelong Learning Network | 547              | -                               | 80%                                  |
| University of Rochester                           | 523              | 35%                             | 80%                                  |

## Business Analytics

### Top 10 Bachelor's Programs (2020 Completions)

- Eight of the top 10 Bachelor's in Business Analytics programs are at public institutions.
- Four of the top 10 institutions accept more than 80% of freshman applicants.
- In contrast, the two private institutions on this list (NYU and UPenn) are both highly selective and have high-status graduate business schools.
- Only NYU is on the top-10 lists for both Bachelor's and Master's programs in Business Analytics.

| Campus                                              | Q | 2020 Completions | IPEDS: % of Applicants Accepted | IPEDS: % International - Nonresident |
|-----------------------------------------------------|---|------------------|---------------------------------|--------------------------------------|
| University of California-Davis                      |   | 593 ▼            | 46%                             | 29%                                  |
| Virginia Polytechnic Institute and State University |   | 442              | 66%                             | 5%                                   |
| University of Virginia-Main Campus                  |   | 346              | 23%                             | 8%                                   |
| George Mason University                             |   | 344              | 89%                             | 8%                                   |
| University of South Carolina-Columbia               |   | 260              | 68%                             | 7%                                   |
| Ohio University-Main Campus                         |   | 245              | 87%                             | 0%                                   |
| New York University                                 |   | 239              | 21%                             | 48%                                  |
| University of Pennsylvania                          |   | 215              | 9%                              | 39%                                  |
| University of Iowa                                  |   | 213              | 84%                             | 35%                                  |
| Bridgewater State University                        |   | 162              | 82%                             | 1%                                   |



# Summary

- Google searches for programs declined 5% year-over-year.
- Google searches for brands increased 10% year-over-year.
- As tax season approaches, job posting volume and year-over-year change are high for tax professionals.
- Google searches for Data Science increased 569% year-over-year.
- Business Analytics has been growing extremely quickly at the Bachelor's and Master's levels.
- At the Master's level, the biggest Business Analytics programs are primarily at elite institutions or serve primarily foreign students.



## Upcoming Webinars

| Topic                 | Date                                                    |
|-----------------------|---------------------------------------------------------|
| Demand Trends Webcast | <i>Thursday</i><br>March 31 <sup>st</sup> at 2:00 pm ET |

Contact:  
Robert Atkins  
[Robert.Atkins@grayassociates.com](mailto:Robert.Atkins@grayassociates.com)



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**THANK YOU, FROM OUR TEAM TO YOURS.**