

## MASTER OF SCIENCE IN ANALYTICS

# 2023 ALUMNI REPORT

Number of graduates (97% graduation rate):	1,314
Percent employed in the profession:	96%
Number of employers:	477
Percent employed in the U.S.:	97%
Percent employed in North Carolina:	50%
Average / median age:	33 / 33
Percent who are U.S. citizens or permanent residents:	86%
Percent who are women:	40%
Employed at graduation:	93%
Average Starting Salary (real dollars):	\$114,787
Average Annual Salary in 2023 (estimate based on survey):	\$173,530
Promoted since graduation (within 3 years on the job):	47%
Average time to first job promotion (months):	28
Transitioned employment one or more times:	55%
Estimated annual payroll in 2023 (in millions):	\$142.9

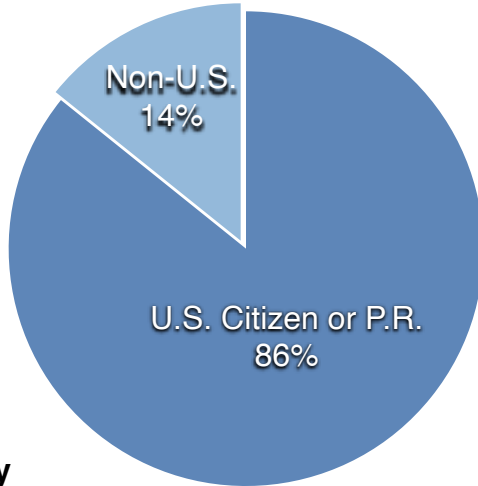
Reported as of December 31, 2023; Includes graduating classes of '08 through '23.

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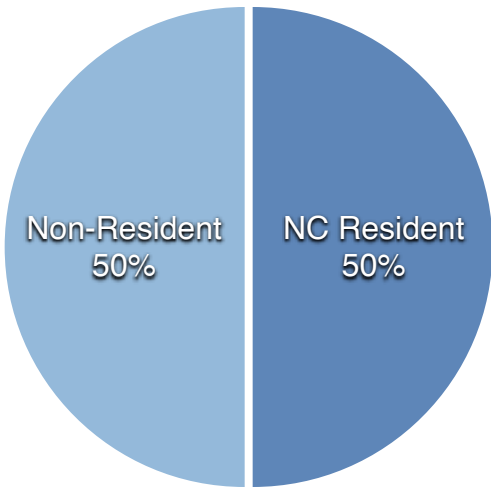
## ALUMNI DEMOGRAPHICS

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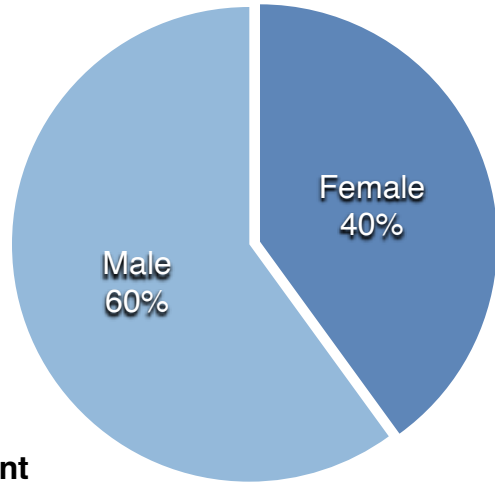
**Citizenship**



**Current Residency**

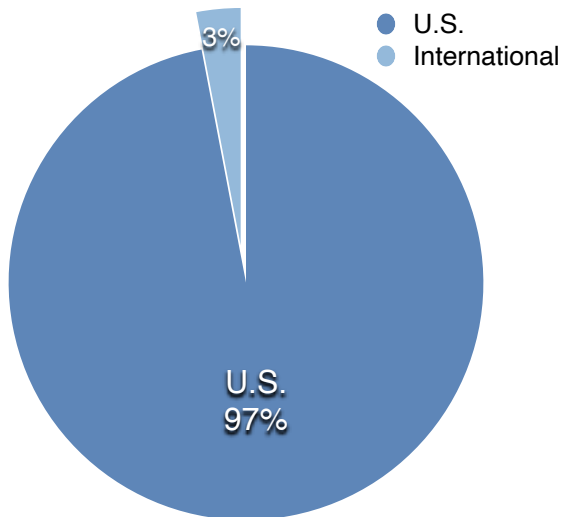


**Gender**

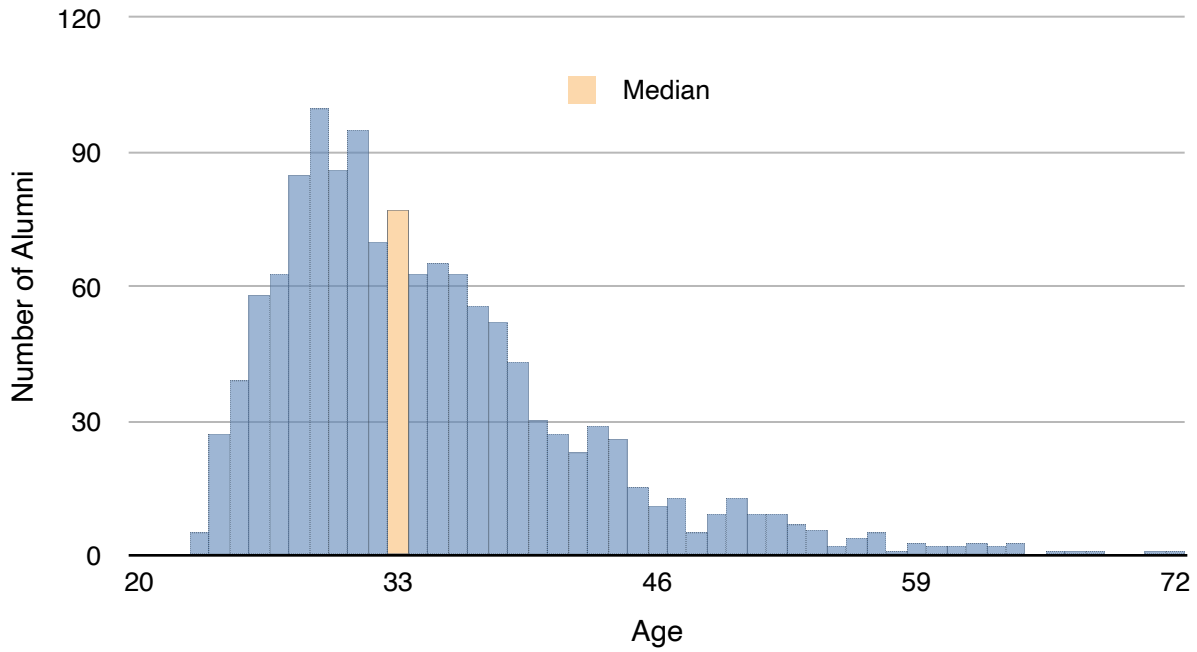


**ALUMNI**

**U.S. Employment**



## Distribution by Age

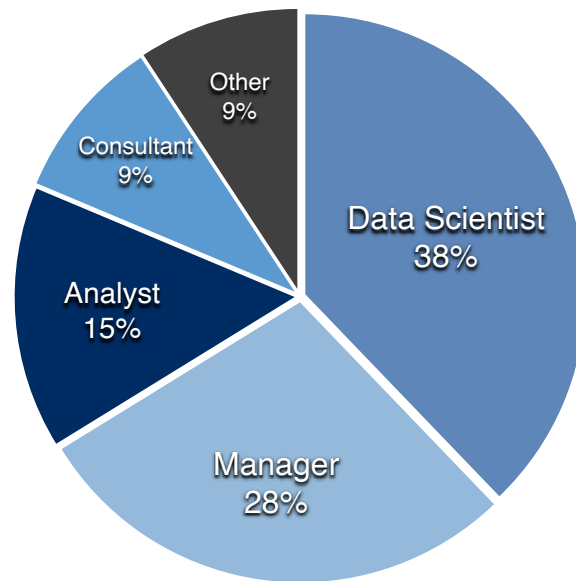


## 70 Countries of Origin

- |                    |             |                |
|--------------------|-------------|----------------|
| Afganistan         | Georgia     | Poland         |
| Argentina          | Germany     | Romania        |
| Armenia            | Ghana       | Russia         |
| Australia          | Greece      | Saudi Arabia   |
| Bangladesh         | Guatemala   | Serbia         |
| Belarus            | Hungary     | Singapore      |
| Belgium            | India       | South Korea    |
| Belize             | Indonesia   | Spain          |
| Bermuda            | Iran        | Sri Lanka      |
| Brazil             | Israel      | Syria          |
| Bulgaria           | Italy       | Taiwan         |
| Cameroon           | Jamaica     | Thailand       |
| Canada             | Jordan      | Turkey         |
| China              | Kenya       | Turkmenistan   |
| Colombia           | Kyrgyzstan  | Uganda         |
| Costa Rica         | Latvia      | Ukraine        |
| Croatia            | Mexico      | United Kingdom |
| Czech Republic     | Myanmar     | United States  |
| Dominican Republic | Nepal       | Uruguay        |
| Ecuador            | Nicaragua   | Uzbekistan     |
| Egypt              | Nigeria     | Venezuela      |
| Eritrea            | Pakistan    | Vietnam        |
| Ethiopia           | Peru        |                |
| France             | Philippines |                |



## Current Position by Major Category




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## Selected Positions

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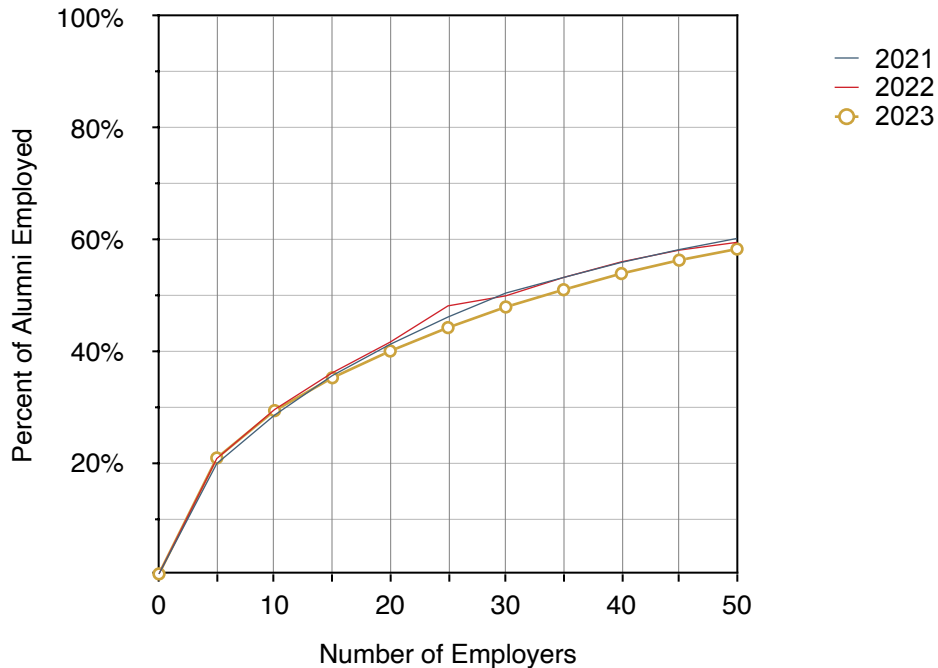
AI Consultant	Lead Data Scientist
AI Data Scientist	Lead Machine Learning Engineer
AI Technology Lead	Manager, Advanced Analytics
AI/ML Data Scientist	Manager, Analytical Consulting
AI/ML Solutions Architect	Manager, Data and Analytics
Analytics and Modeling Manager	Manager, Data Engineering
Analytics Consultant	Manager, Data Science
Applied AI ML Lead	Manager, Decision Analytics
Associate Data Scientist	Manager, Machine Learning
Business Intelligence Engineer	Manager, Quantitative Modeling
Chief Data Officer	Principal Analytics Engineer
Chief Data Scientist	Principal Data Scientist
Chief Financial Officer	Product Manager
Chief Product Officer	Research Data Scientist
Chief Scientist & Co-Founder	Senior Analytics Consultant
Chief Technology Officer & Co-Founder	Senior Analytics Manager
Data & Applied Scientist	Senior Associate Data Scientist
Data Engineer	Senior Consultant
Data Science Manager	Senior Data Scientist
Data Science Senior Manager	Senior Data Science Consultant
Data Scientist	Senior Machine Learning Engineer
Data Scientist Consultant	Senior Manager, Artificial Intelligence
Data Scientist Lead	Senior Manager, Data & Analytics
Data Scientist Senior Consultant	Senior Manager, Data Science
Director, Advanced Analytics	Senior Manager, Global Data Science
Director, Data Analytics and Engineering	Senior VP, Compliance Governance
Director, Data Science	Senior VP, Model Scoring & Data Analytics
Director, Football Research	Vice President, Analytics
Director, Global Insights and Analytics	Vice President, Data Scientist
Expert Manager, Data Science	Vice President, Decision Science
Head of Applied Data Science	Vice President, Lead Data Scientist
Lead Data Engineer	Vice President, Head of Business Intelligence

## Top-40 Employers of Alumni

Accenture	Deloitte	Microsoft
Ally	Elder Research	NC Joint Underwriters Assoc.
Amazon	Elevate Credit	Pendo
Ankura	EY	PenFed Credit Union
Apple	Fidelity Investments	Red Hat
Bain & Company	Fifth Third Bank	RTI International
Bank of America	Google	SAS
Capital One	Guidehouse	The Home Depot
Cigna/Evernorth	JPMorgan Chase	The Walt Disney Company
Cisco	LendingTree	Truist
Credit Karma	Lowe's Companies	US Defense Department
Databricks	M&T Bank	US Federal Government
Dataiku	Meta	Verizon
		Wells Fargo

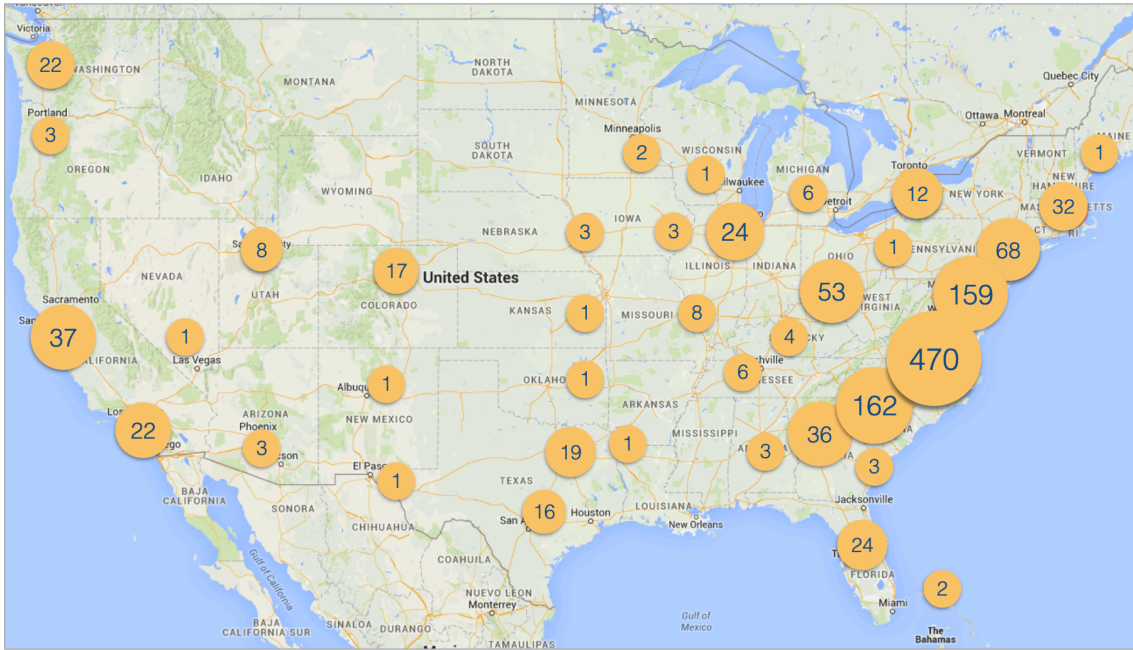
Note: There are 477 employers of alumni in total.

### Alumni Concentration Among the Top-50 Employers

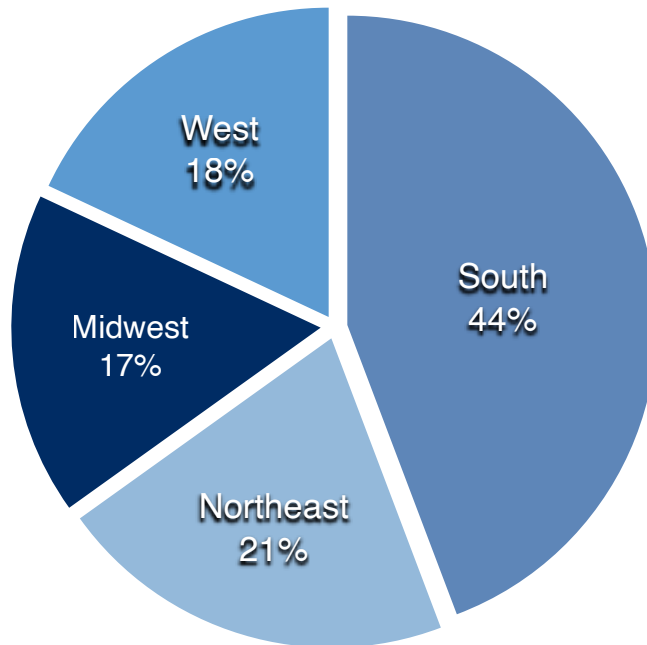


Note: The top-20 employers account for 40% of all employment among alumni.

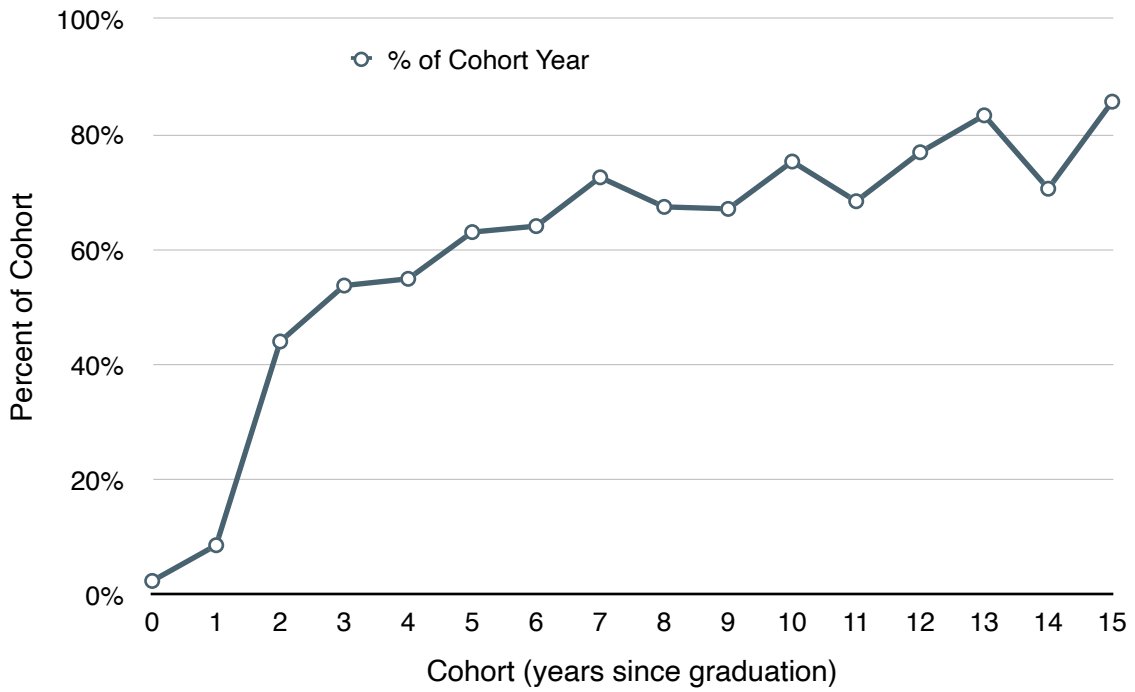
## Geographic Distribution of Employment within U.S.



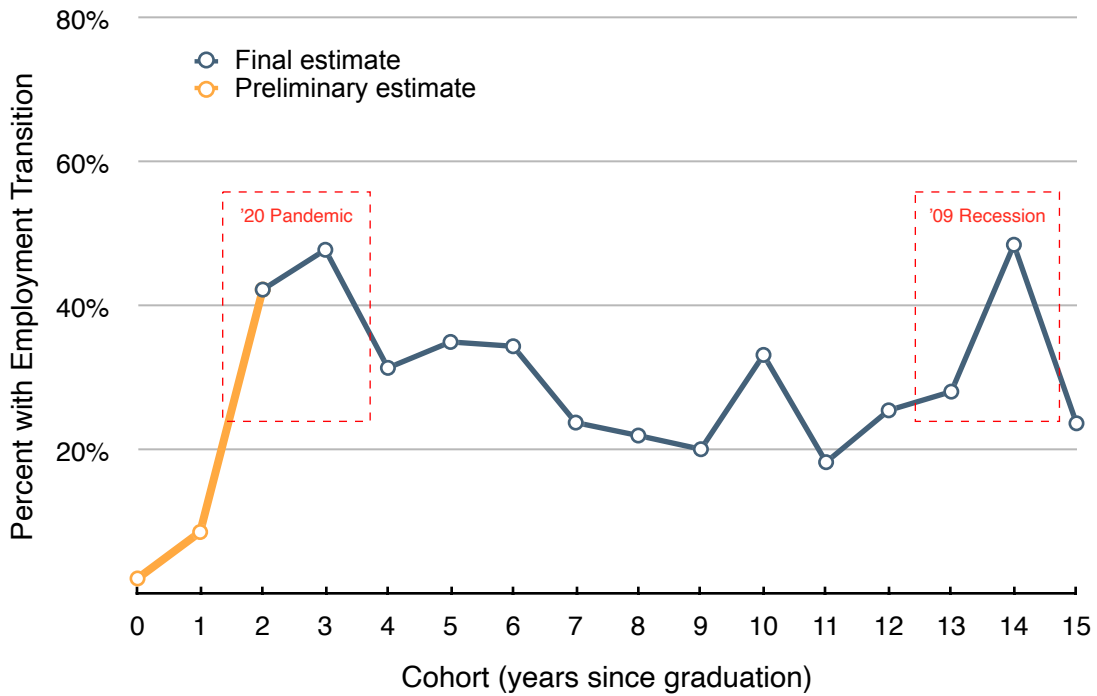
## Distribution of Employment Outside North Carolina by U.S. Geographic Region



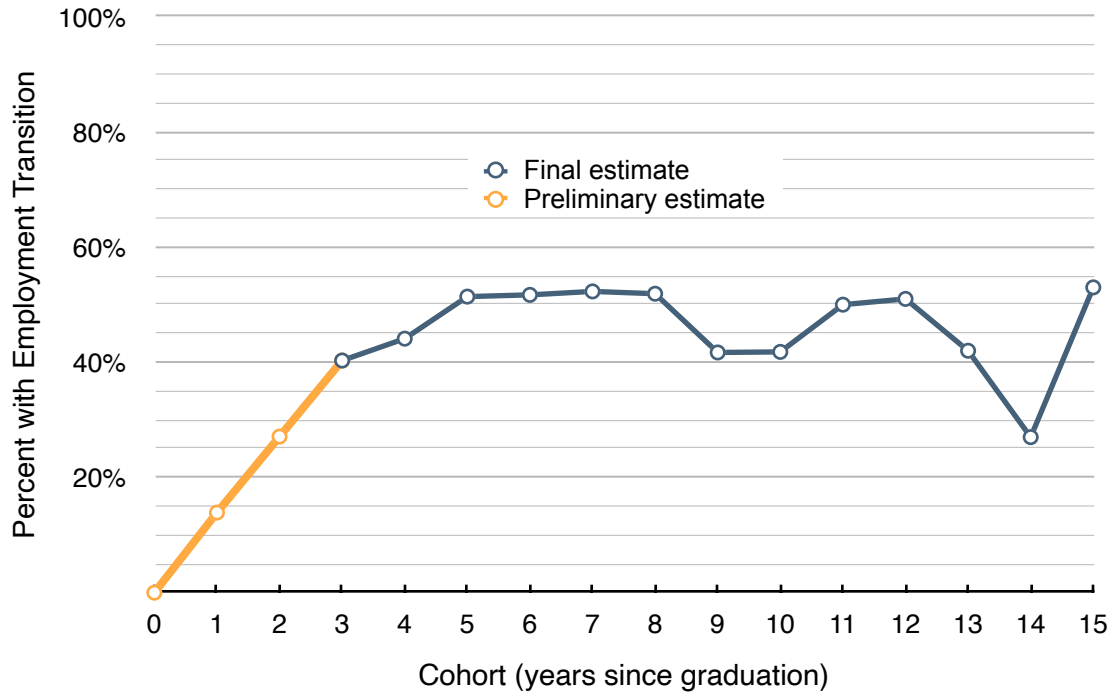
### First Employment Transition by Cohort



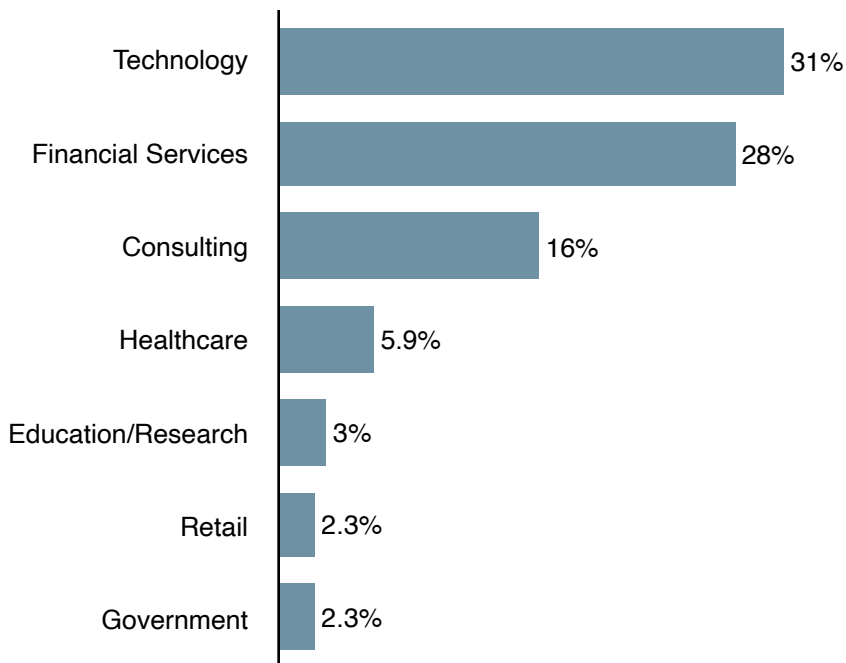
### Percent of Cohort with the First Employment Transition Occurring Within 2 Years of Graduation



### Percent of Cohort with the First Job Promotion Occurring Within 3 Years of Graduation

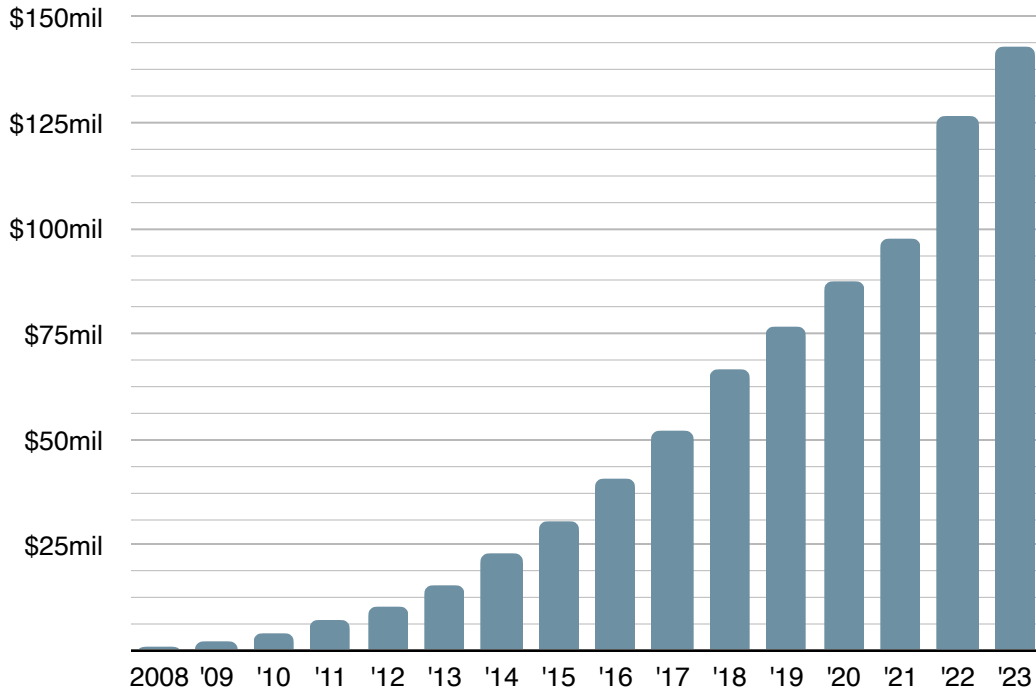


### Distribution of Employment by Major Industry Sector



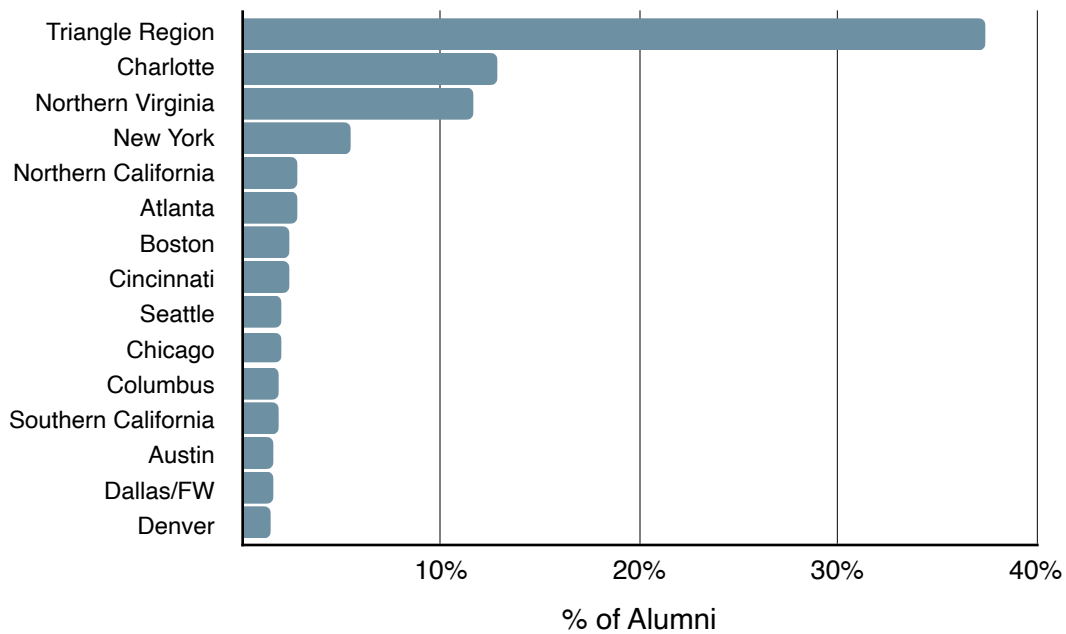


### Estimated Annual Earnings of Alumni Community

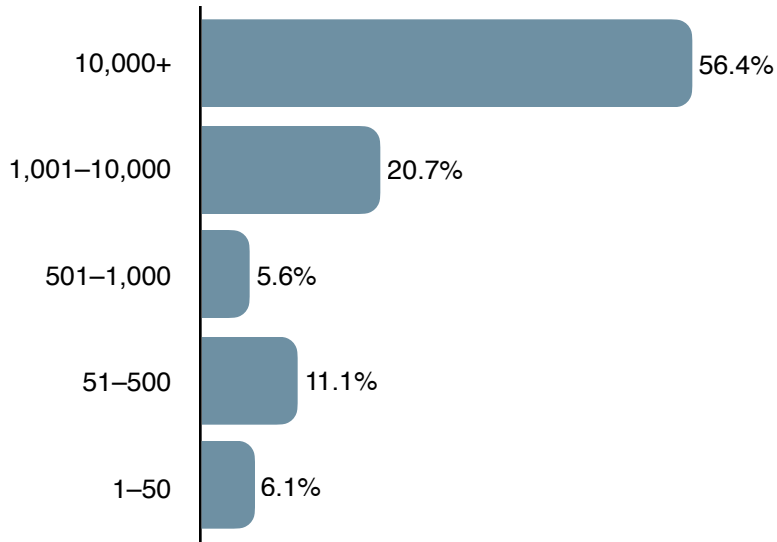


Note: Estimate is based on individual starting salaries adjusted for inflation.

### Distribution of Alumni Across by Top Metropolitan Areas



### Distribution of Alumni By Size of Employer (Number of Employees)

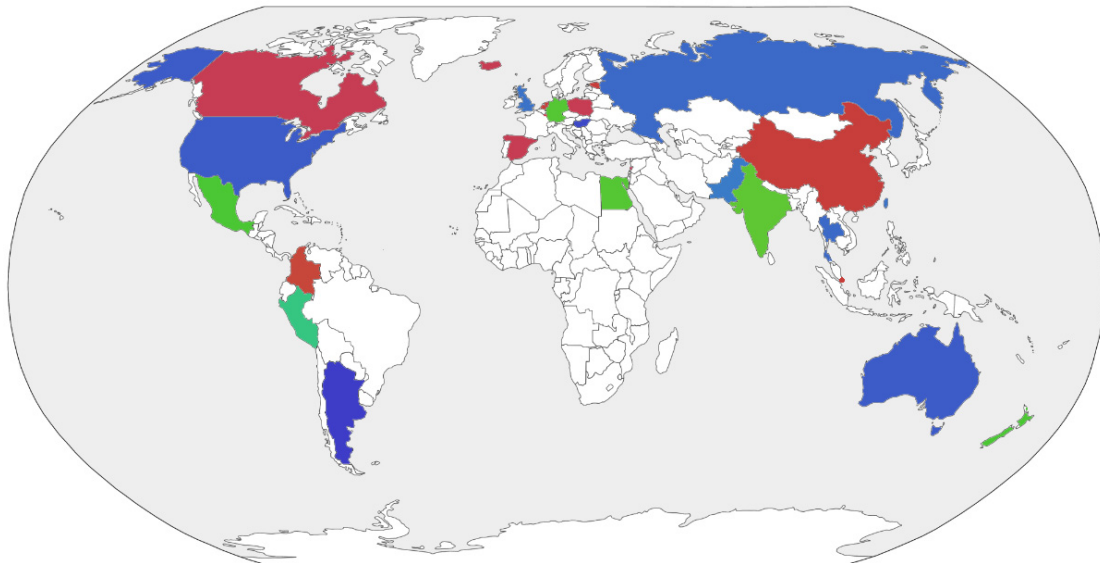


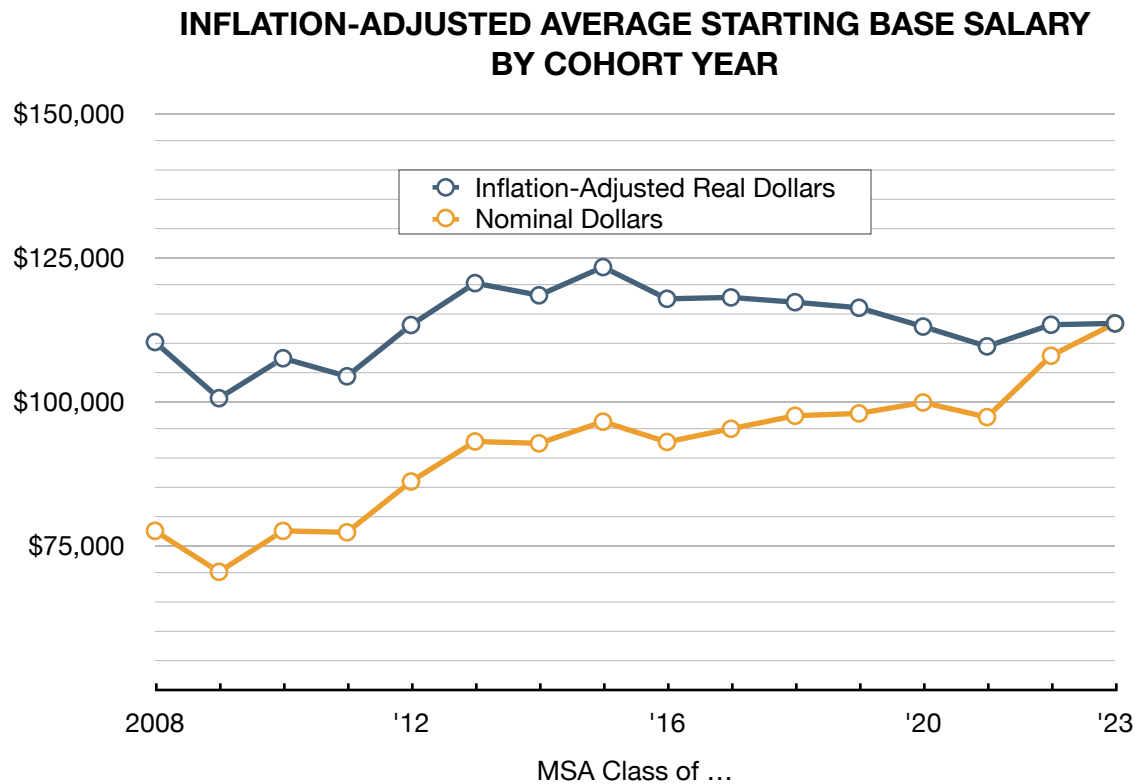
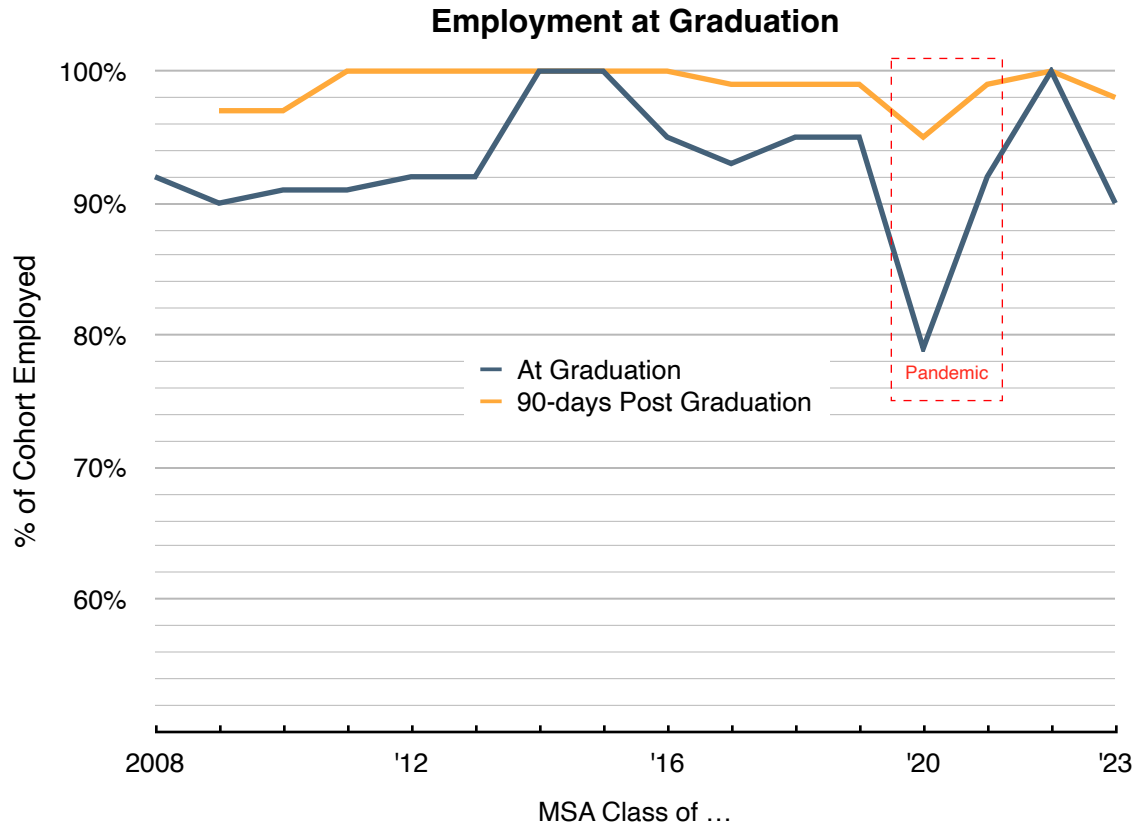
Percent of Alumni

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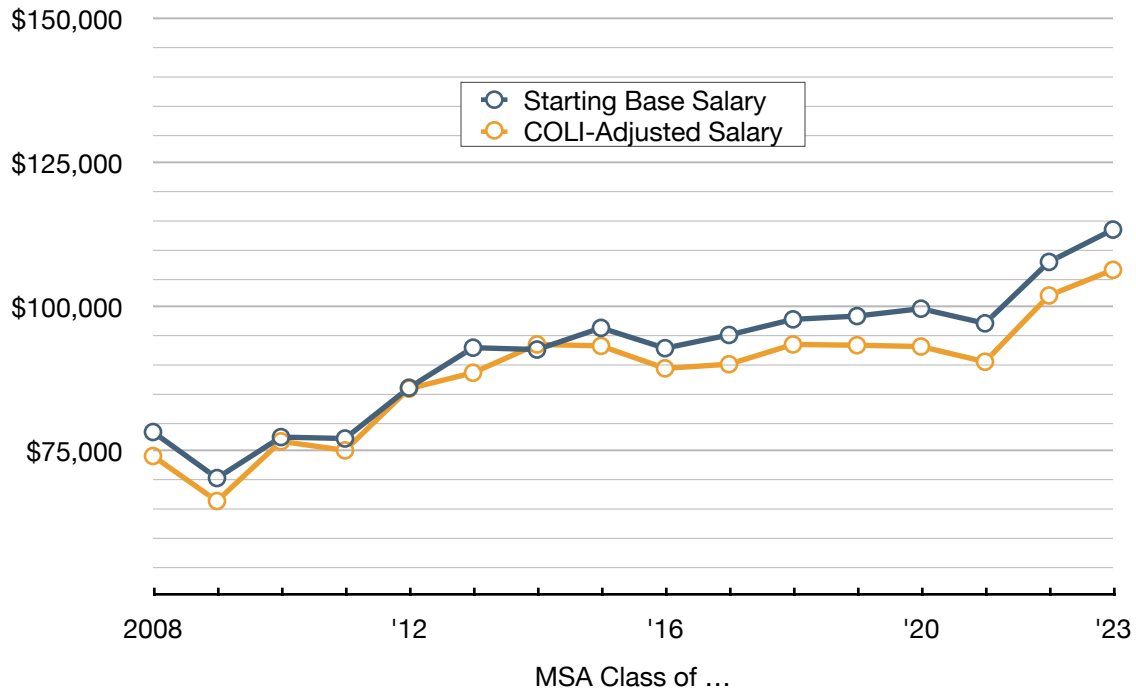
### Global Employment Locations

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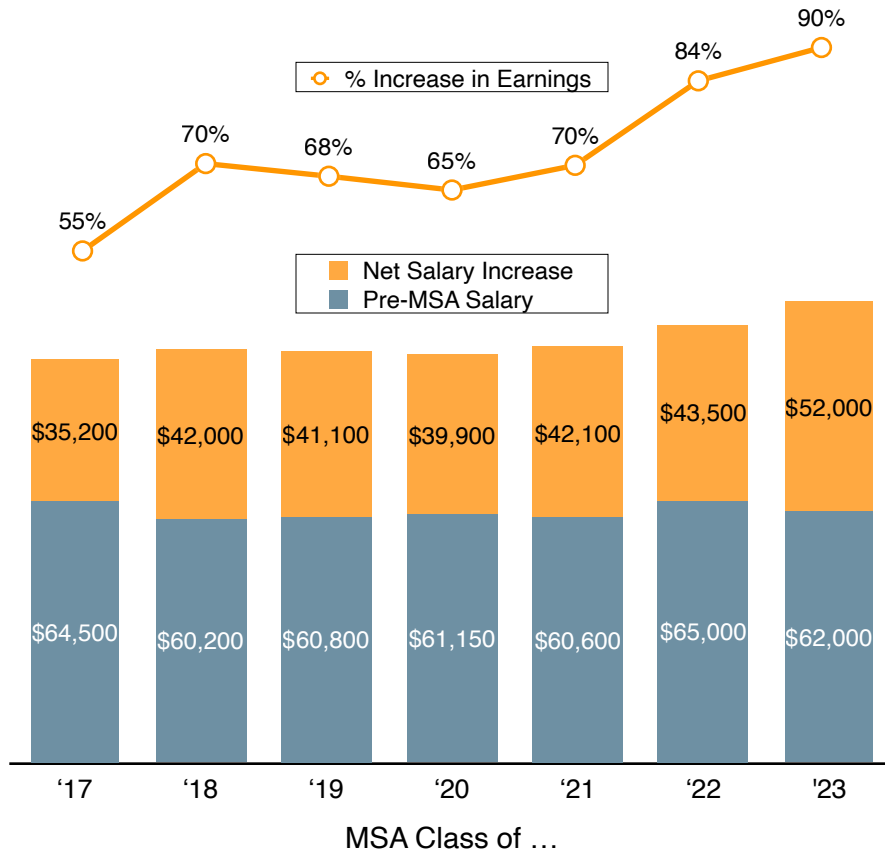




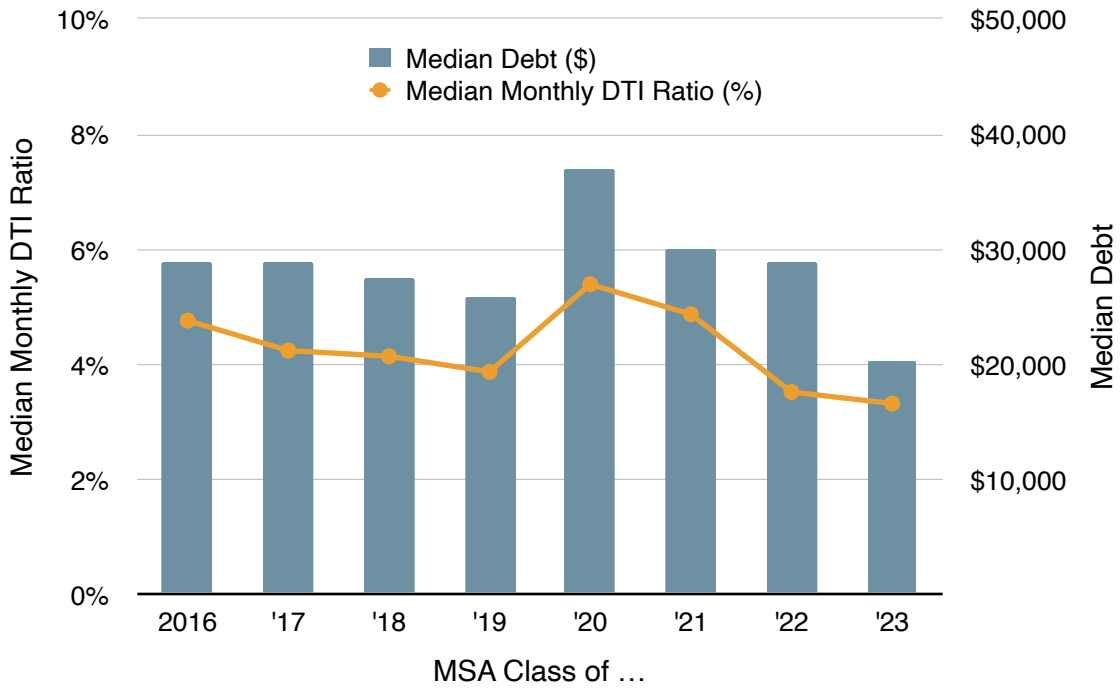
### COST OF LIVING INDEX (COLI) ADJUSTED STARTING BASE SALARY BY LOCATION OF EMPLOYMENT



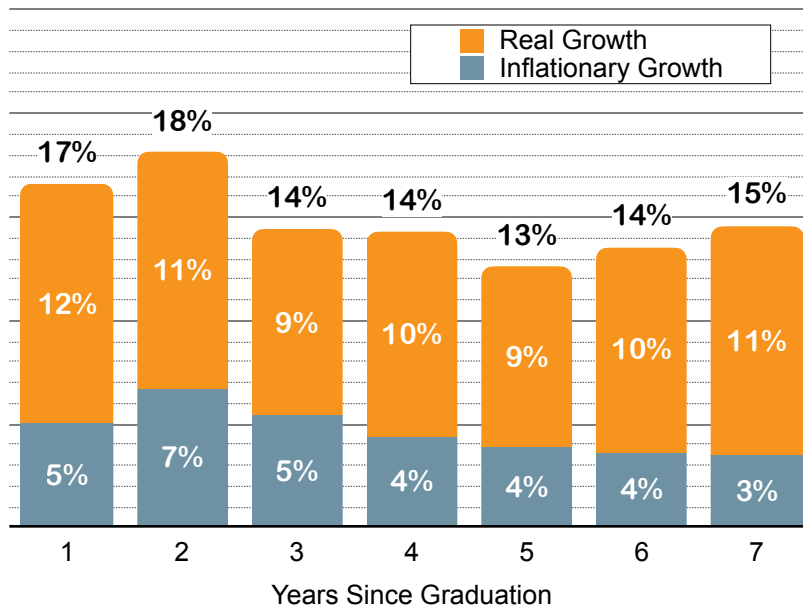
### NET INCREASE IN EARNINGS FOR PREVIOUSLY EMPLOYED ALUMNI



### Median Debt and Monthly Debt to Income (DTI) Ratio



### Compound Average Growth Rate in Total Compensation by Years Since Graduation (Alumni Survey, n=366)

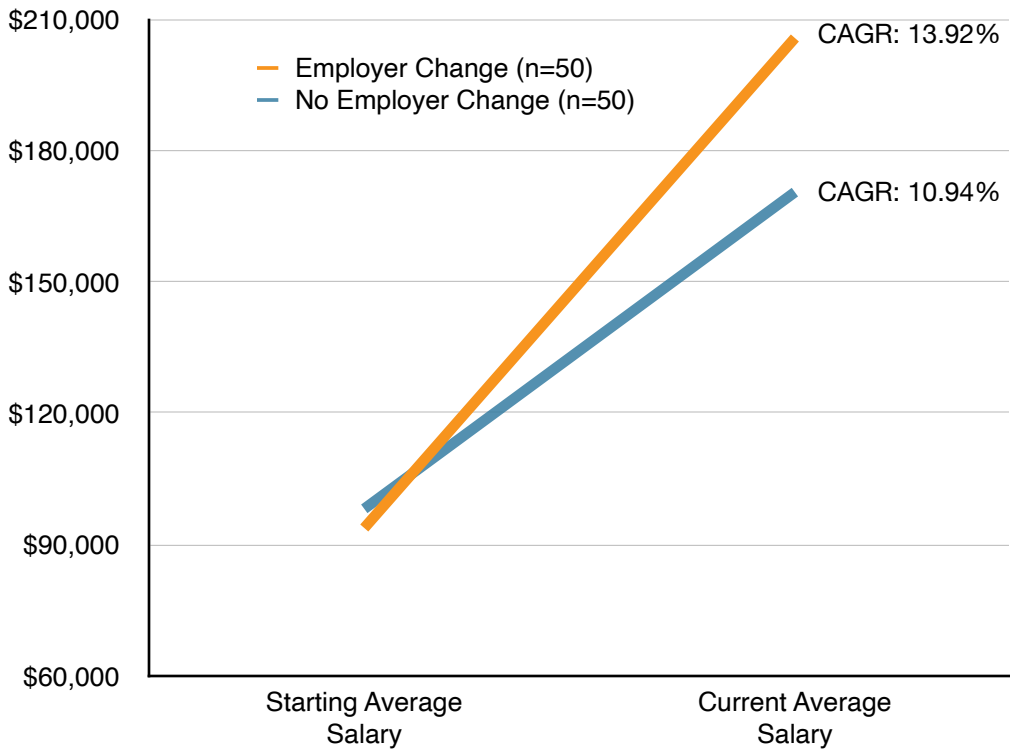


Annual Base Salary for Alumni by the Number of Years Post-Graduation (Class of 2008 through 2022)

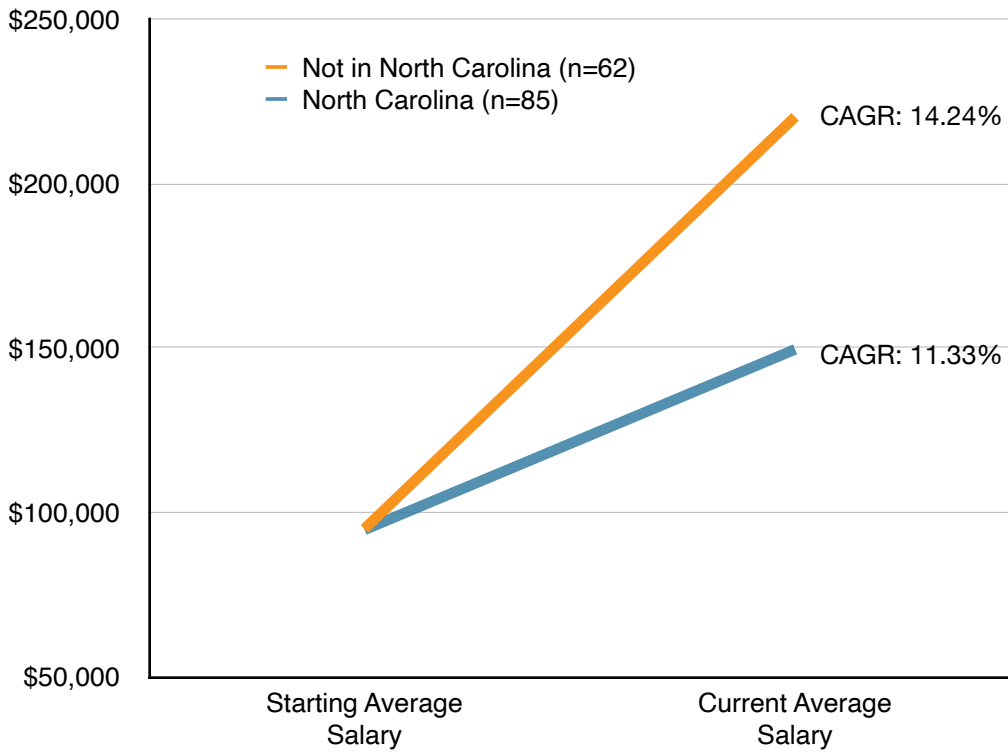
	Base Salary by Years Post-Graduation			
	1-3 Years	4-6 Years	7-9 Years	10 or More Years
<b>Mean</b>	\$122,058	\$152,513	\$174,922	\$190,943
<b>Max</b>	\$180,000	\$280,000	\$400,000	\$520,000
<b>75th</b>	\$130,000	\$170,000	\$196,000	\$209,000
<b>Median</b>	\$120,000	\$146,000	\$170,000	\$175,000
<b>25th</b>	\$110,000	\$130,000	\$148,000	\$157,500
<b>Min</b>	\$75,000	\$95,000	\$99,000	\$109,000
<b>N</b>	137	116	77	35
<b>Population</b>	352	340	278	255
<b>Response Rate</b>	39%	34%	28%	14%

Institute for Advanced Analytics poll of Master of Science in Analytics alumni conducted July 25 to August 15, 2023. <https://go.ncsu.edu/salary-survey-2023>

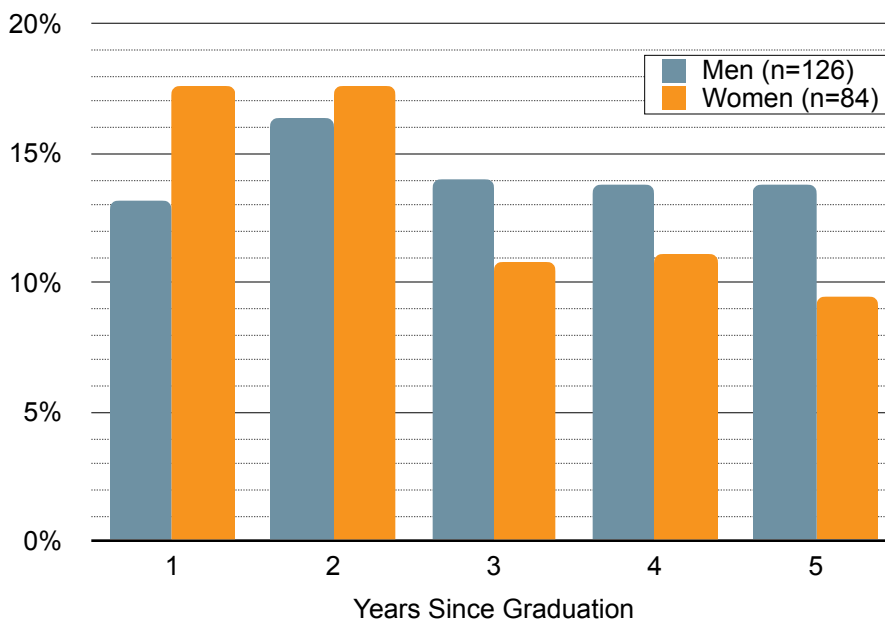
Comparative Wage Growth For Alumni in Classes of '16-'19 Who Had Made or Not Made a Change in Employer Between January 2021 and July 2023



Comparative Wage Growth For U.S.-based Alumni Who Reside in North Carolina and Those Who Do Not  
Class of '16 through '19 (n=147)



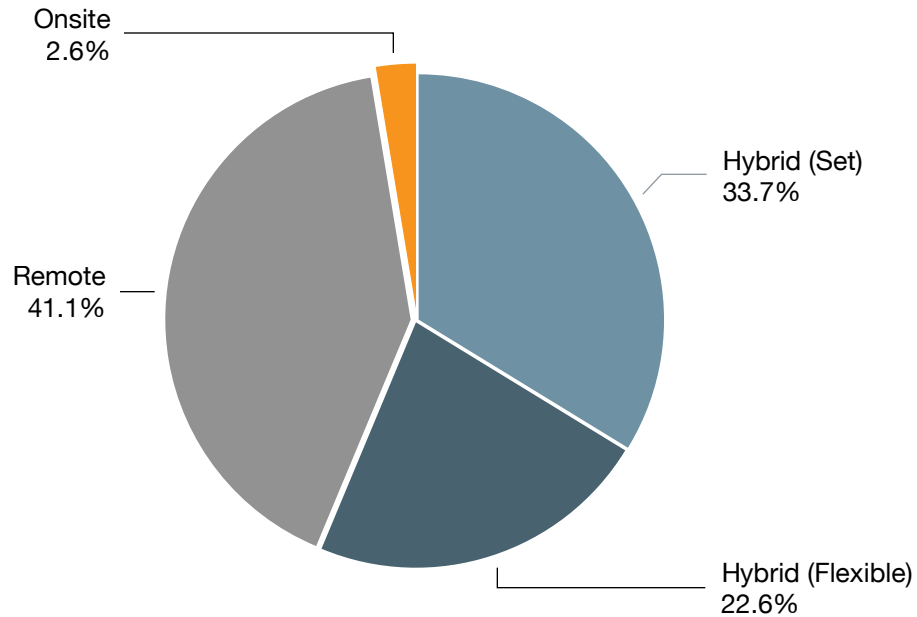
Compound Average Growth Rate in Total Compensation for Men and Women in the 5 Years Since Graduation  
(n=210; 36% response rate)



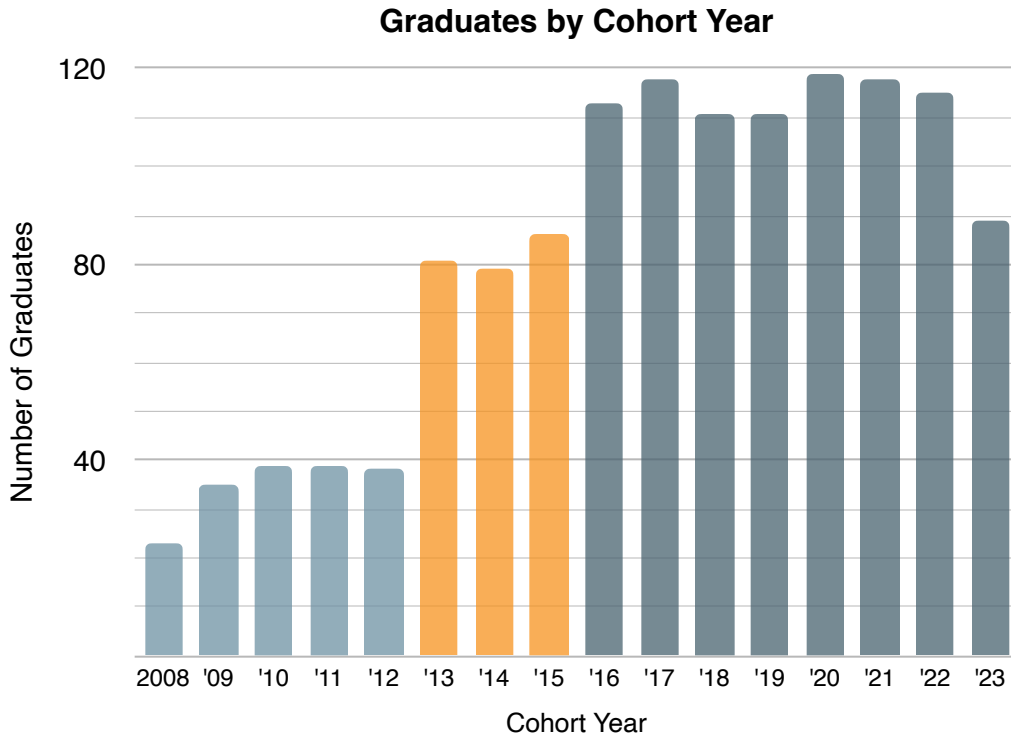
**Total Compensation for Institute Alumni and  
Glassdoor Survey Participants (Data Scientists and  
Senior Data Scientists), August 2023**



**Workplace Arrangements of  
Alumni Survey Respondents  
(n=572)**







#### About the Data

Data in this report are compiled primarily from three sources: (1) Institute records on admissions and employment published annually; (2) Information on current employment, including transitions and promotions, gathered from alumni profiles on LinkedIn; and (3) periodic surveys of alumni with 722 participants in 2023.

Institute measurements are typically a census of each cohort year with carefully curated data for completeness and accuracy.

Though imperfect, data culled from LinkedIn may be useful in discerning trends over time keeping in mind the limitations. While a significant portion of the alumni population maintain up-to-date and detailed profiles, there are cases where the profile is updated sporadically or provides only rudimentary details about employers and positions. In a small number of cases it is evident a profile has been stagnant since graduation. Individuals may be more likely to make timely updates to their profile when significant career changes happen, such as employer transitions, and slightly less so when receiving career ladder promotions.

Source URL: <http://analytics.ncsu.edu/reports/alumni/MSA2023.pdf>