Institute for ADVANCED ANALYTICS
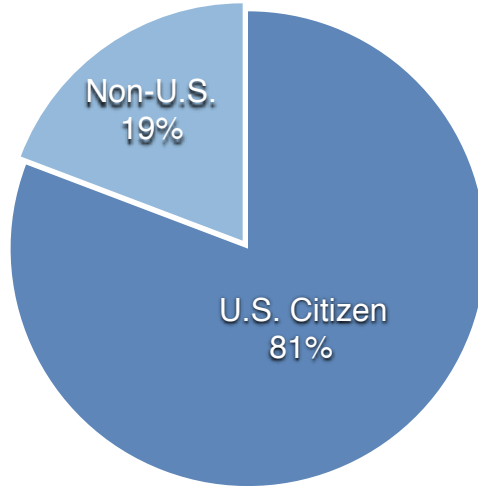
Dr. Michael Rappa, Founding Director

MASTER OF SCIENCE IN ANALYTICS

2018 ALUMNI REPORT

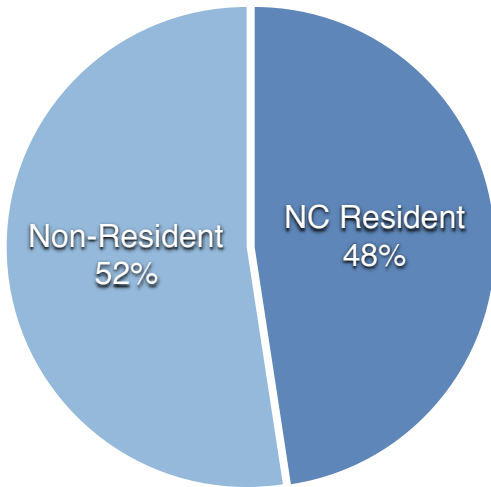|	
Number of graduates (97% graduation rate):	762
Percent employed in the profession:	97%
Number of employers:	257
Percent employed in the U.S.:	97%
Percent employed in North Carolina:	48%
Average / median age:	31 / 30
Percent who are U.S. citizens:	81%
Percent who are women:	41%
Employed at graduation:	96%
Average Starting Salary (inflation-adjusted)	$96,442
Promoted since graduation (with 3 or more years on the job):	57%
Average time to first job promotion (months):	26
Transitioned employment one or more times:	37%
Estimated annual payroll in 2018 (in millions):	$66.2

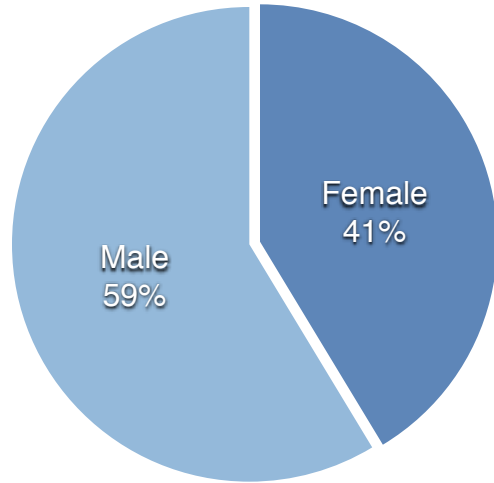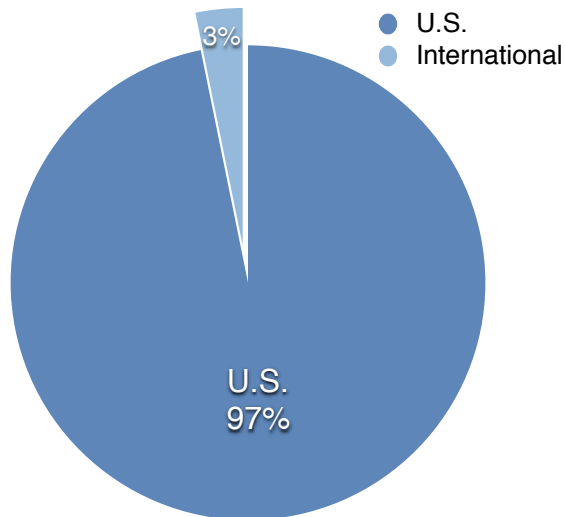Reported as of January 24, 2019; Includes graduating classes of 2008 through 2018.

For further information contact: analytics@ncsu.edu

ALUMNI DEMOGRAPHICS

Citizenship

Non-U.S.
19%

U.S. Citizen
81%

Residency

Non-Resident
52%

NC Resident
48%

Gender

Female
41%

Male
59%

Employment

3%

U.S.
97%

● U.S.
● International

Age Distribution

Number of Alumni

Median

Age
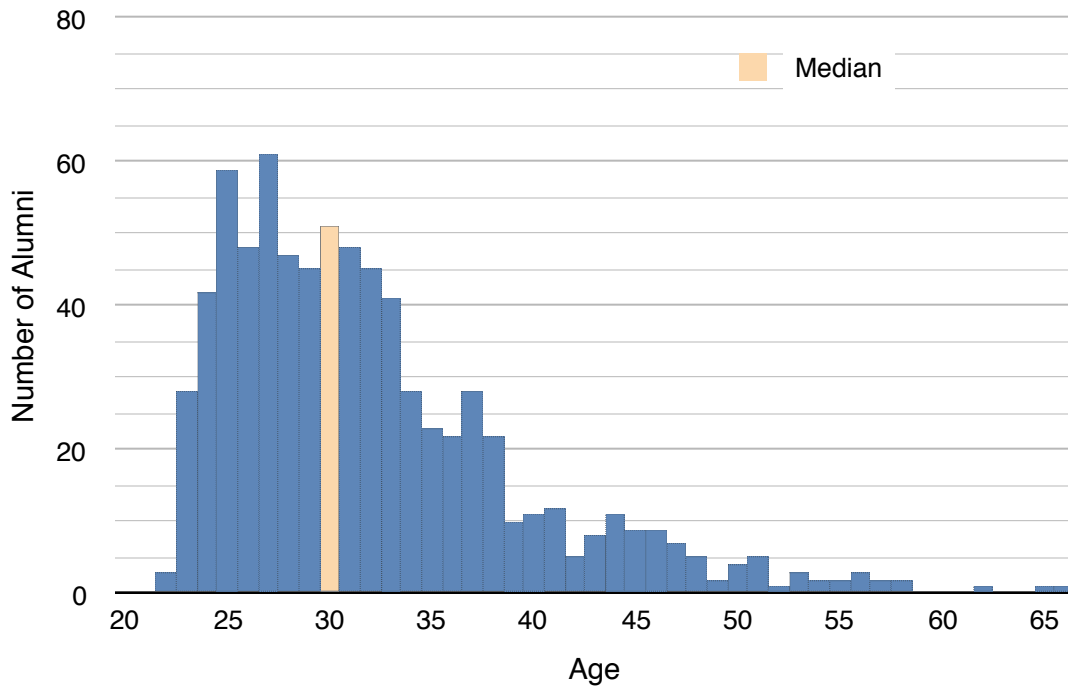
56 Countries of Origin

Argentina	Ethiopia	Philippines
Armenia	France	Poland
Australia	Germany	Romania
Bangladesh	Ghana	Russia
Belarus	Greece	Saudi Arabia
Belgium	Hungary	Singapore
Bermuda	India	South Korea
Brazil	Iran	Spain
Bulgaria	Israel	Sri Lanka
Canada	Italy	Thailand
China	Jamaica	Turkey
Colombia	Kyrgyzstan	Ukraine
Costa Rica	Latvia	United Kingdom
Croatia	Mexico	United States
Czech Republic	Nepal	Uruguay
Dominican Republic	Nicaragua	Uzbekistan
Ecuador	Nigeria	Venezuela
Egypt	Pakistan	Vietnam
Eritrea	Peru	

Positions Held by Major Category
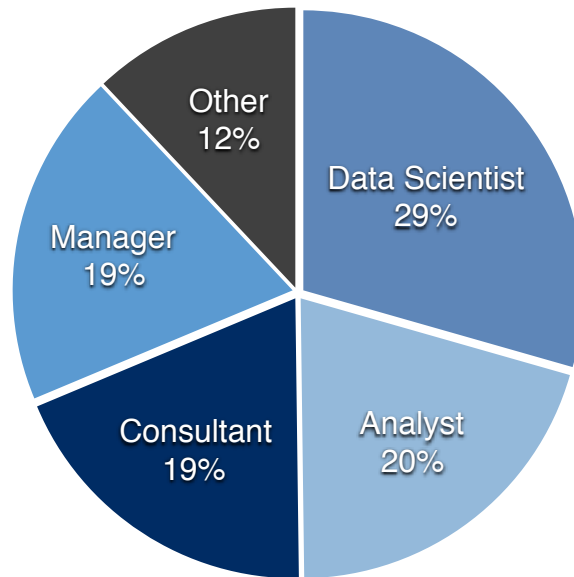

Selected Positions

Advanced Analytics Data Scientist

Analytical Consultant

Analytics and Modeling Manager

Analytics Consultant

Associate Data Scientist

Business Data Scientist

Chief Data Scientist

Consultant

Data Analyst

Data Scientist

Data Scientist Manager

Director, Data and Analytics

Director, Data Science

Head of Data and Analytics

Head of Risk Management

Lead Analyst

Lead Data Scientist

Manager, Advanced Analytics

Manager, Customer Insights

Manager, Data and Analytics

Manager, Data Engineering

Manager, Data Science

Manager, Medical Advanced Analytics

Manager, Reporting and Analytics

Marketing Data Scientist Senior Associate

Marketing Optimization Senior Associate

Operations Analytics Modeler

Principal Analyst, Data Science

Principal Data Scientist

Quantitative Finance Analyst

Research Data Scientist

Risk Analyst

Senior Analyst

Senior Analytics Consultant

Senior Analytics Manager

Senior Associate

Senior Consultant

Senior Data Analyst

Senior Data Scientist

Senior Data Science Consultant

Senior Geographic Data Scientist

Senior Insights Analyst

Senior Manager, Advanced Analytics

Senior Manager, Data Science

Senior Model Validation Analyst

Senior Specialist, Global Advanced Analytics

Senior Statistical Analyst

Software Developer

Staff Consultant

Statistician

Technical Architect

Technical Research Manager

Technical Consultant

Vice President, Data Science & Analytics

Leading Employers

Accenture Federal Services
Ally Financial
Amazon
Ankura Consulting
Asurion
Bain & Company
Bank of America
BB&T
Blue Cross Blue Shield of NC
Cigna
Citrix
Community Care of North Carolina
Deloitte
Elder Research
Elevate
EY
Facebook
Fidelity Investments
Fifth Third Bank

GlaxoSmithKline
Google
IBM
JPMorgan Chase
Liberty Mutual
Lowe's Companies
Northrop Grumman
Putnam Investments
Red Hat
RTI International
SAP
SAS
Slalom Consulting
The Home Depot
The Walt Disney Company
TIAA
US Federal Government
Wells Fargo
Zencos

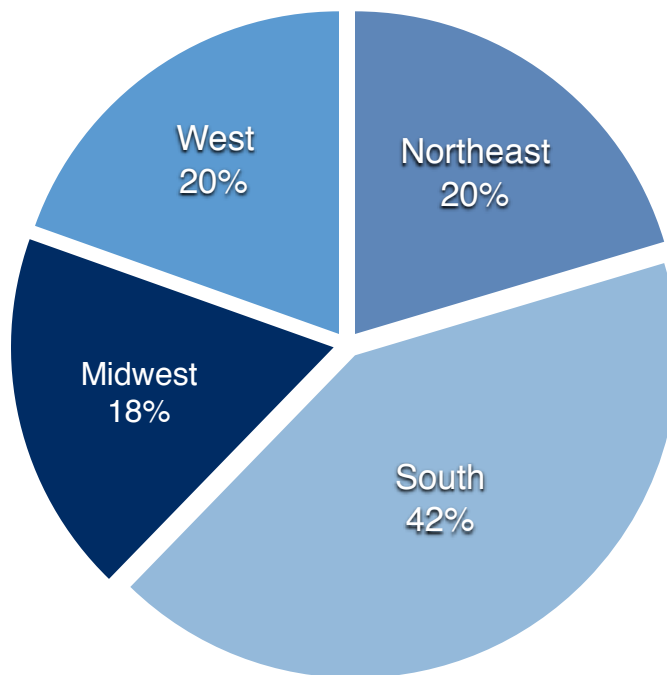Note: The Top-10 employers are listed in **Bold.** There are 257 employers in total.

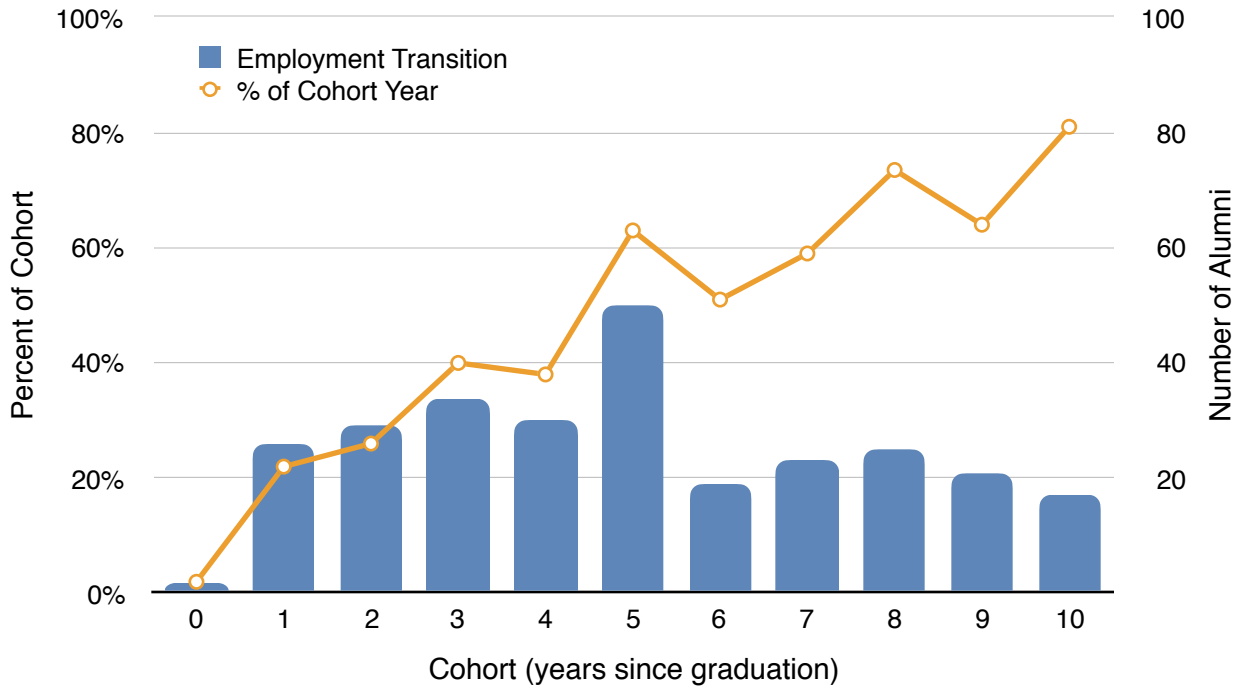## Alumni Concentration Among the Top-50 Employers
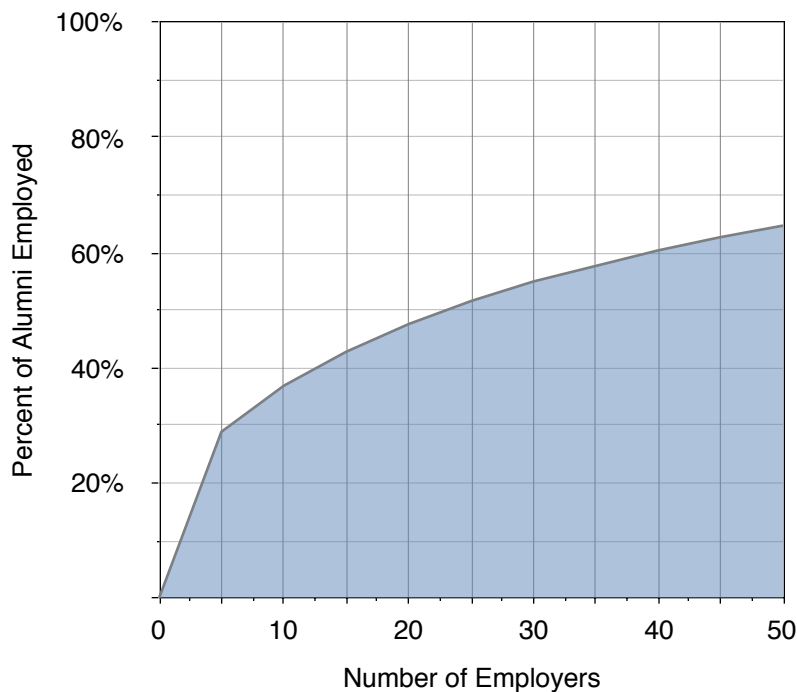
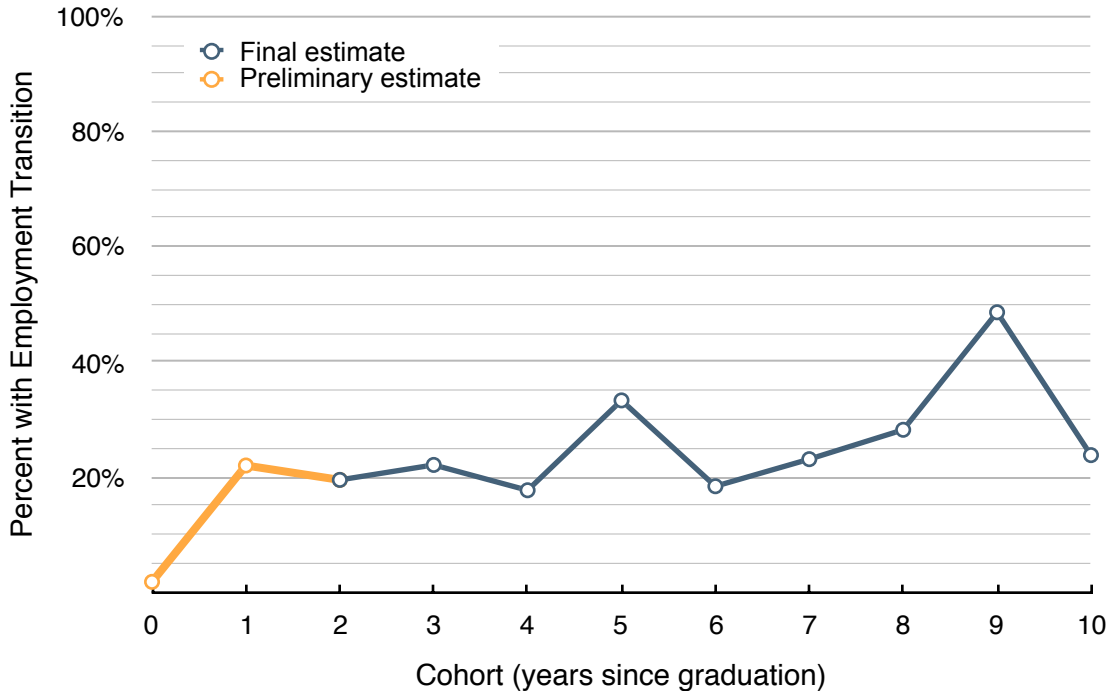## Geographic Distribution of Employment within U.S.
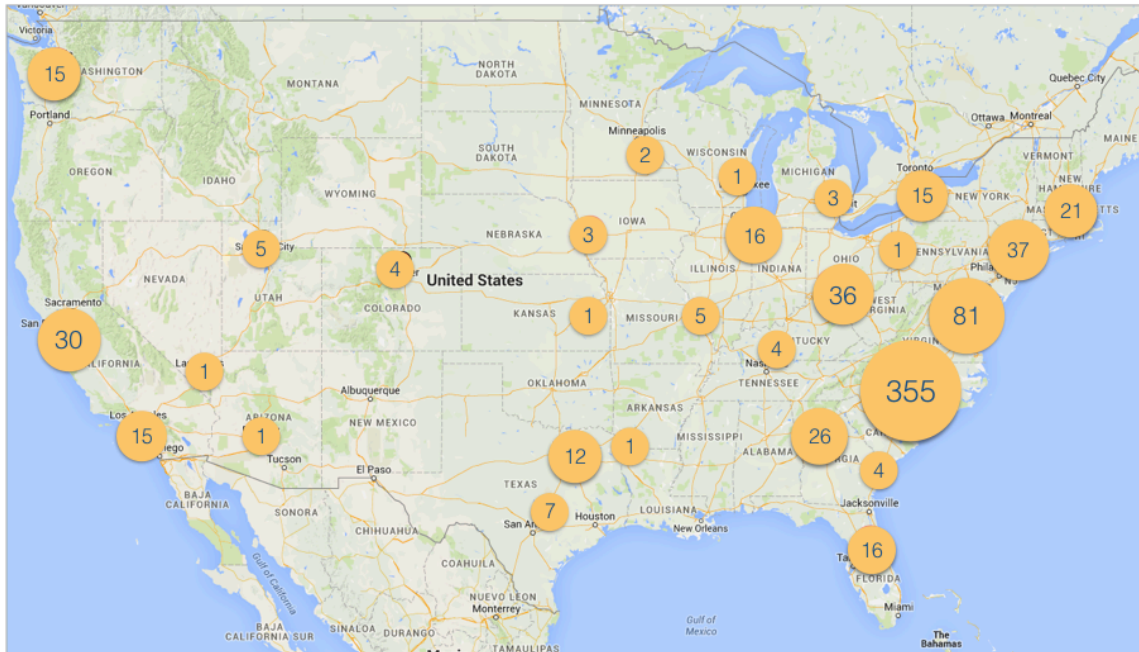
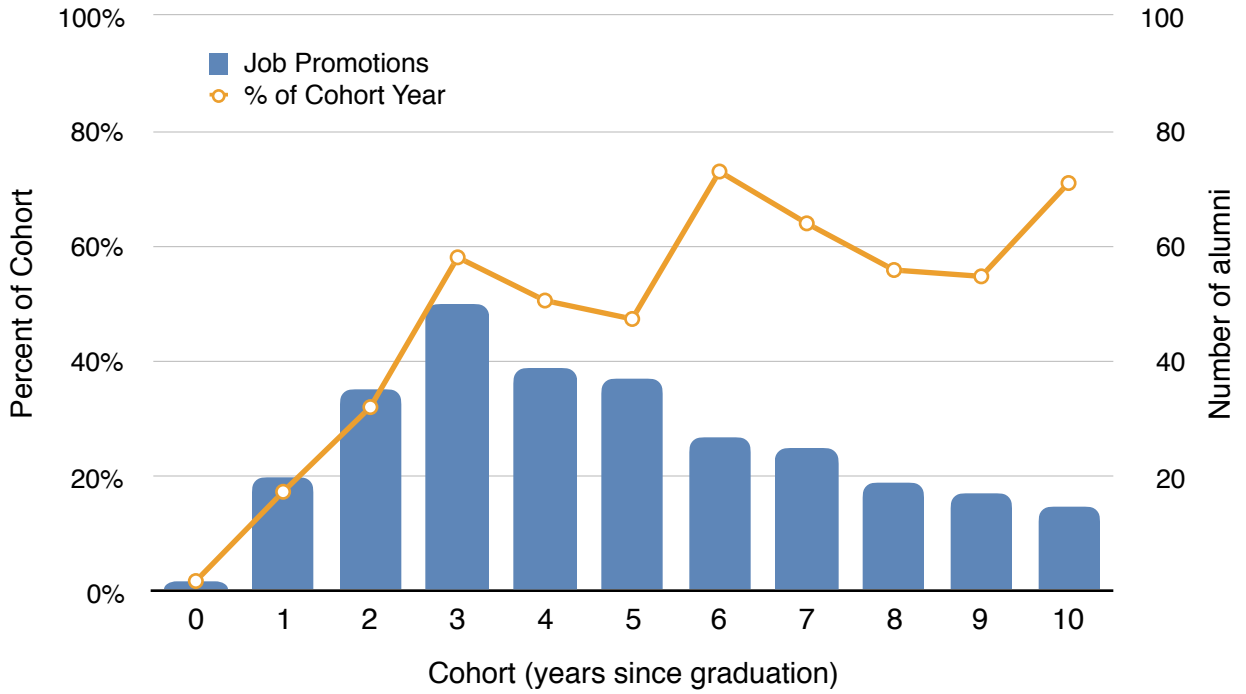## Distribution of Employment Outside North Carolina by U.S. Geographic Region

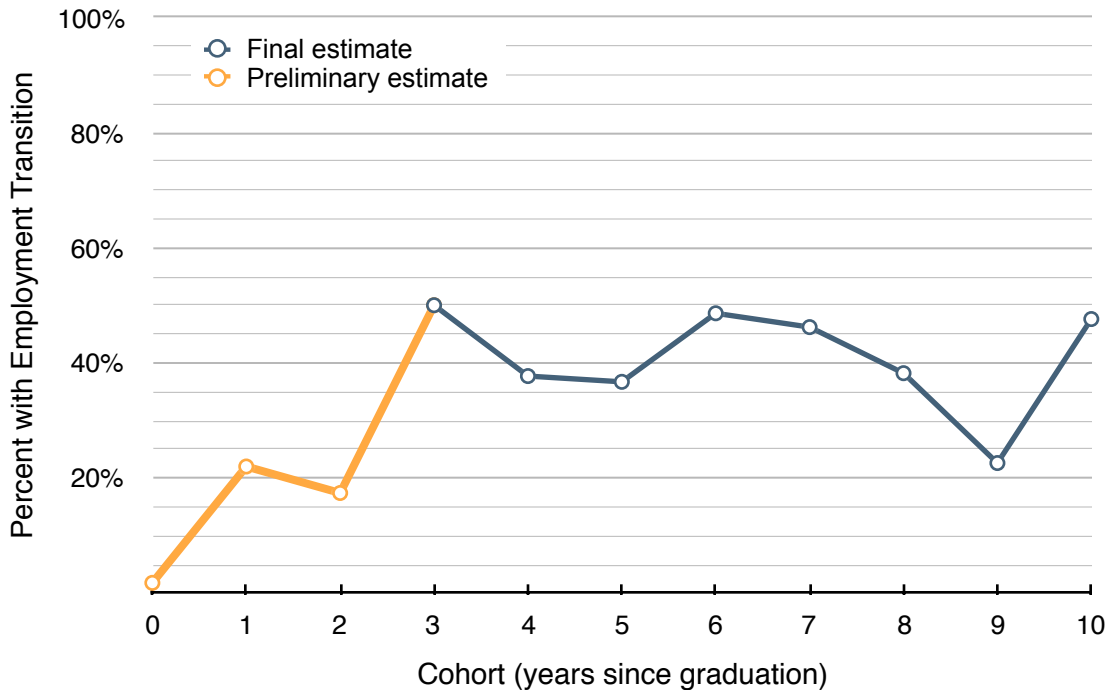## First Employment Transition by Cohort

Percent of Cohort with the First Employment Transition Occurring Within 2 Years of Graduation
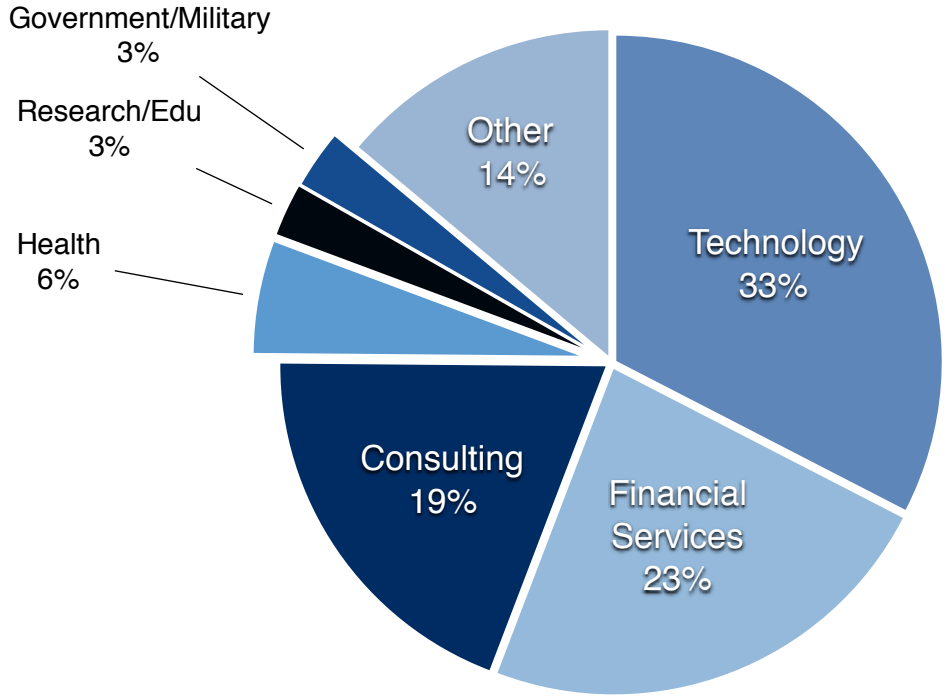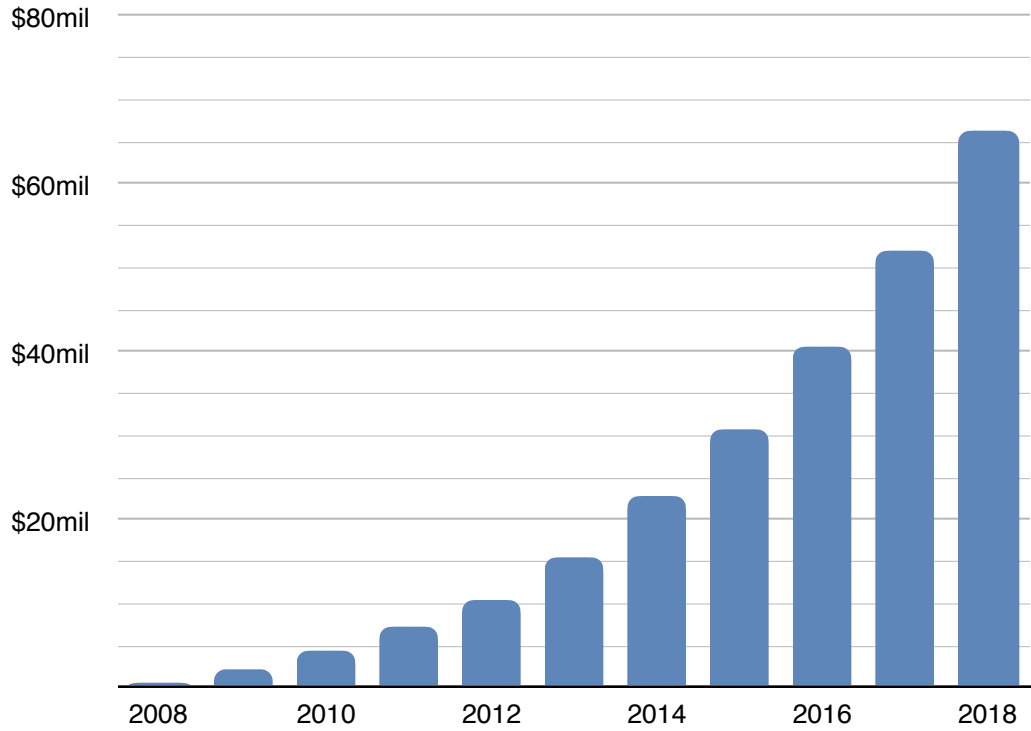
First Job Promotion by Cohort

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

Distribution of Employment by Major Industry Sector

Government/Military
3%

Research/Edu
3%

Health
6%

Other
14%

Technology
33%

Financial Services
23%

Consulting
19%

Estimated Annual Earnings of Alumni Community

$80mil

$60mil

$40mil

$20mil

2008   2010   2012   2014   2016   2018

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

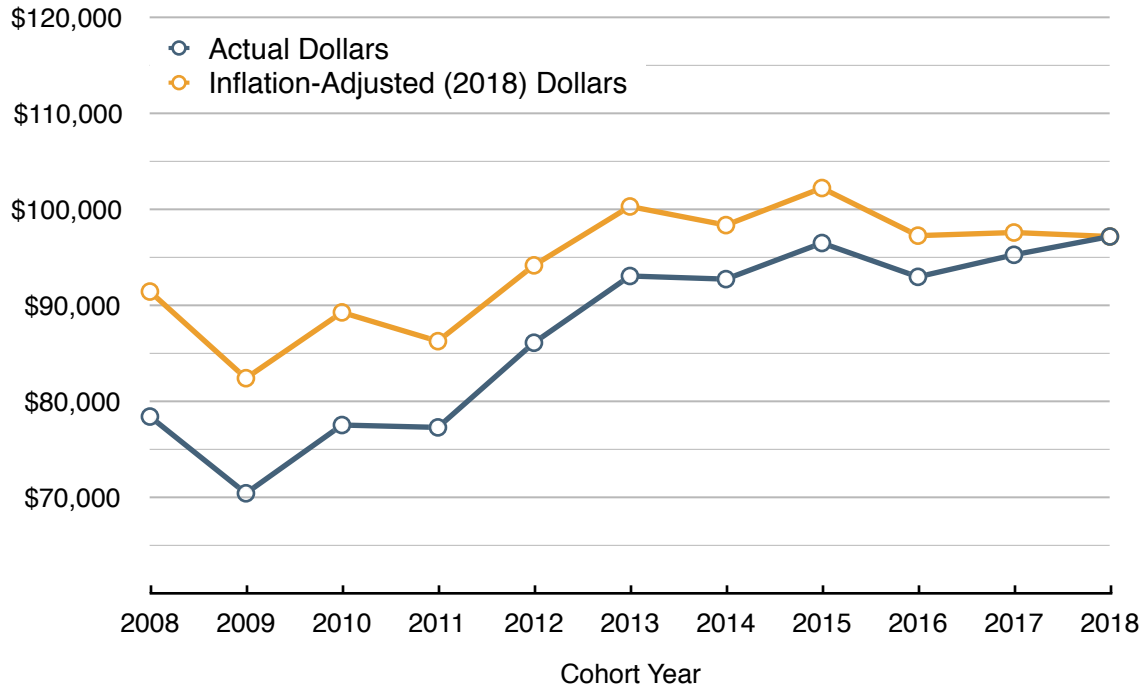## Geographic Distribution of Employment
Outside North Carolina

Number of Alumni
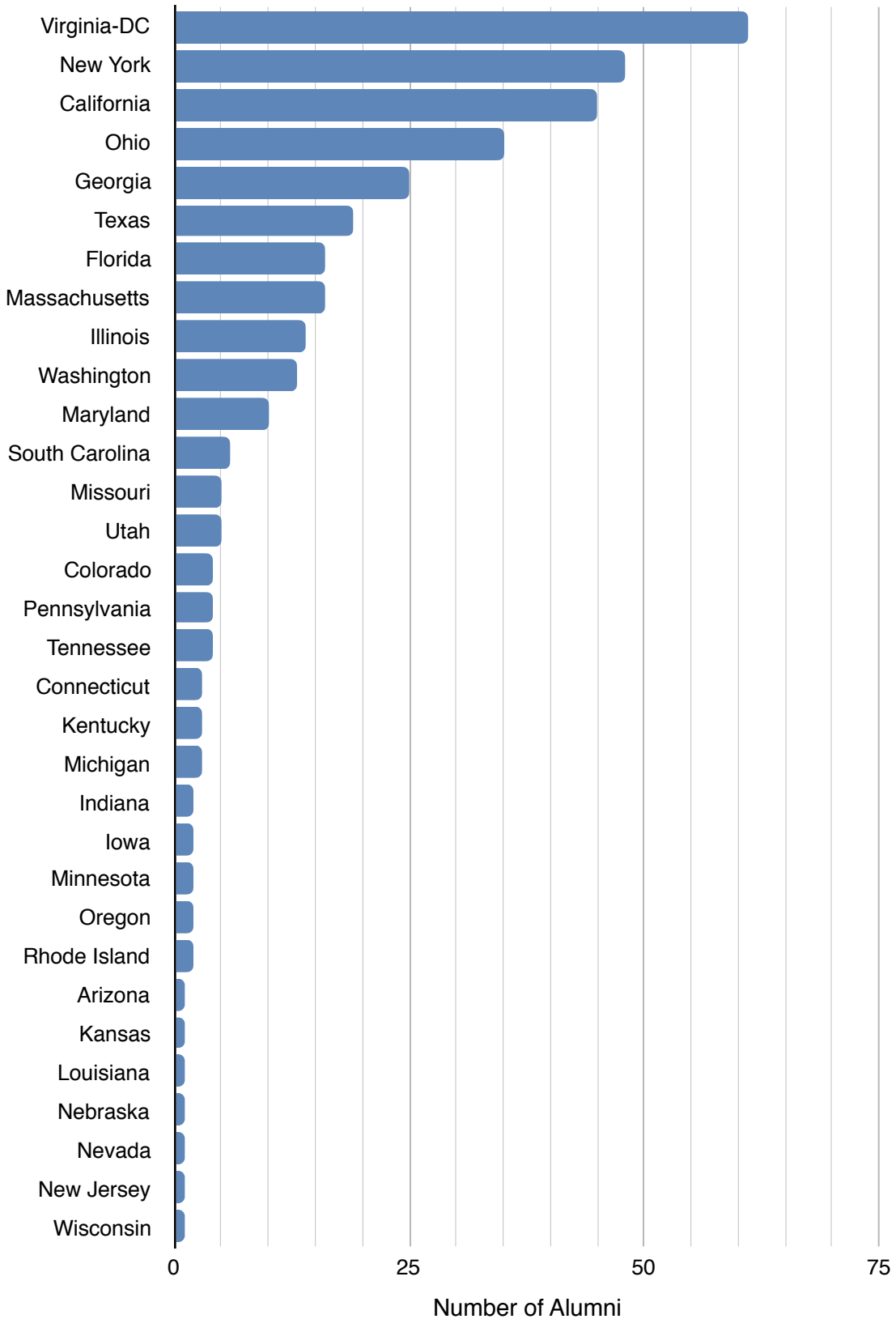
Global Employment Locations

Employment at Graduation

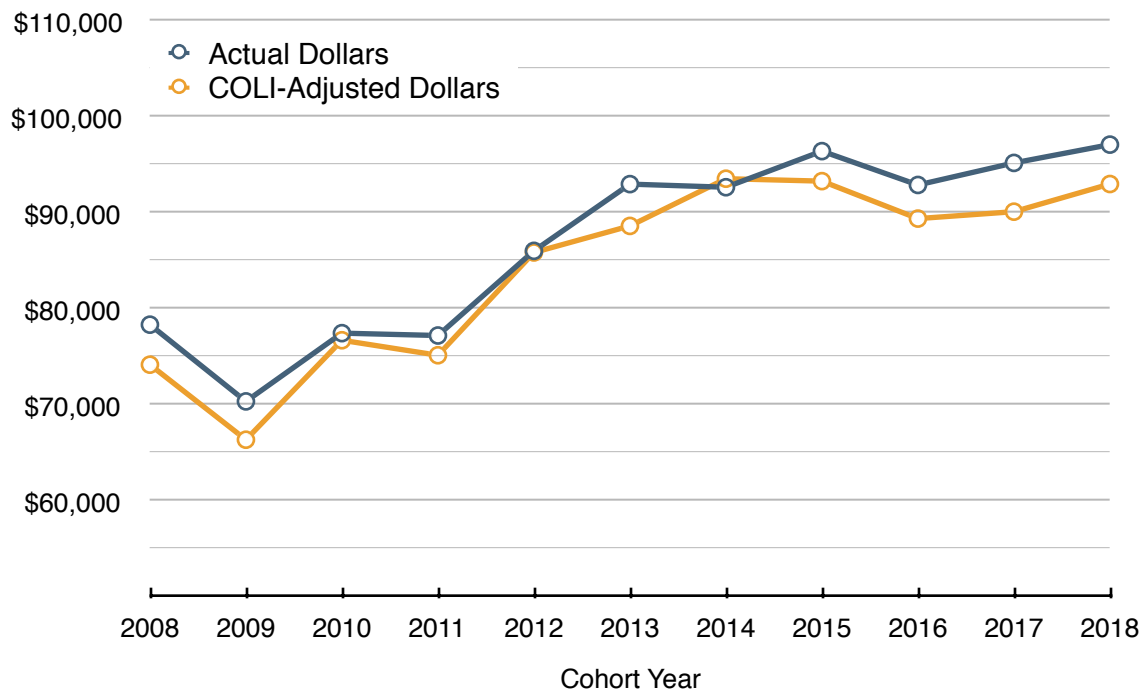Placed by Graduation

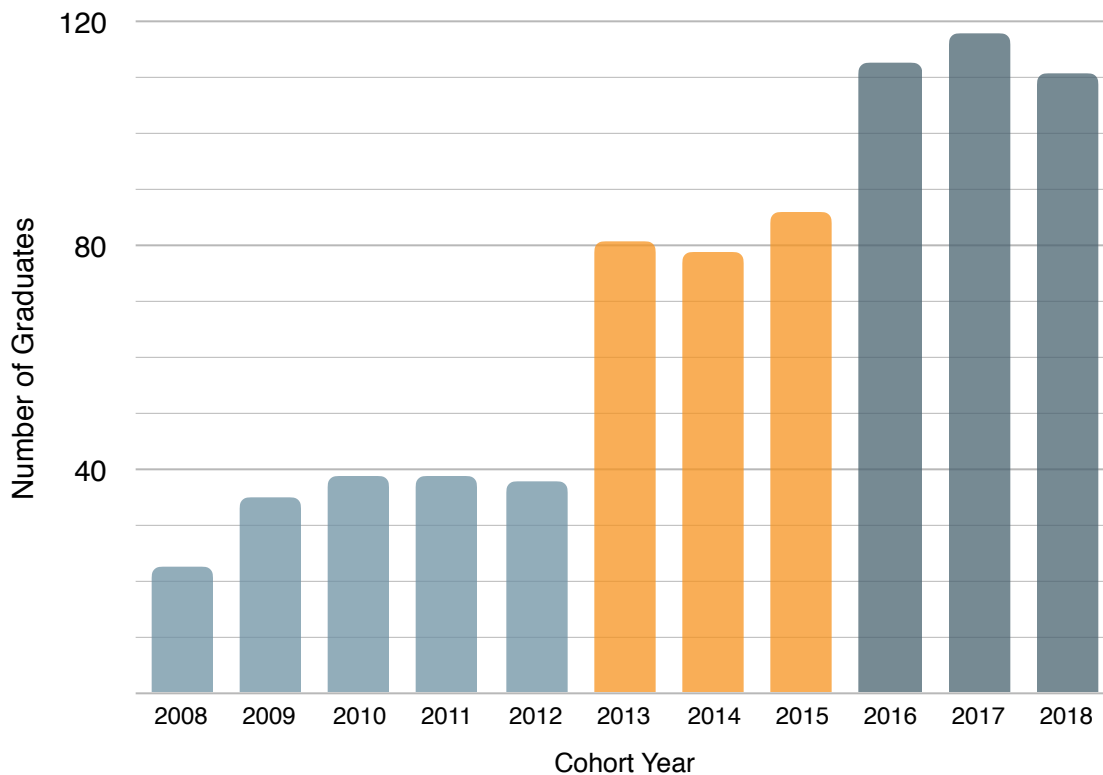- 40 students
- 80 students
- 120 students
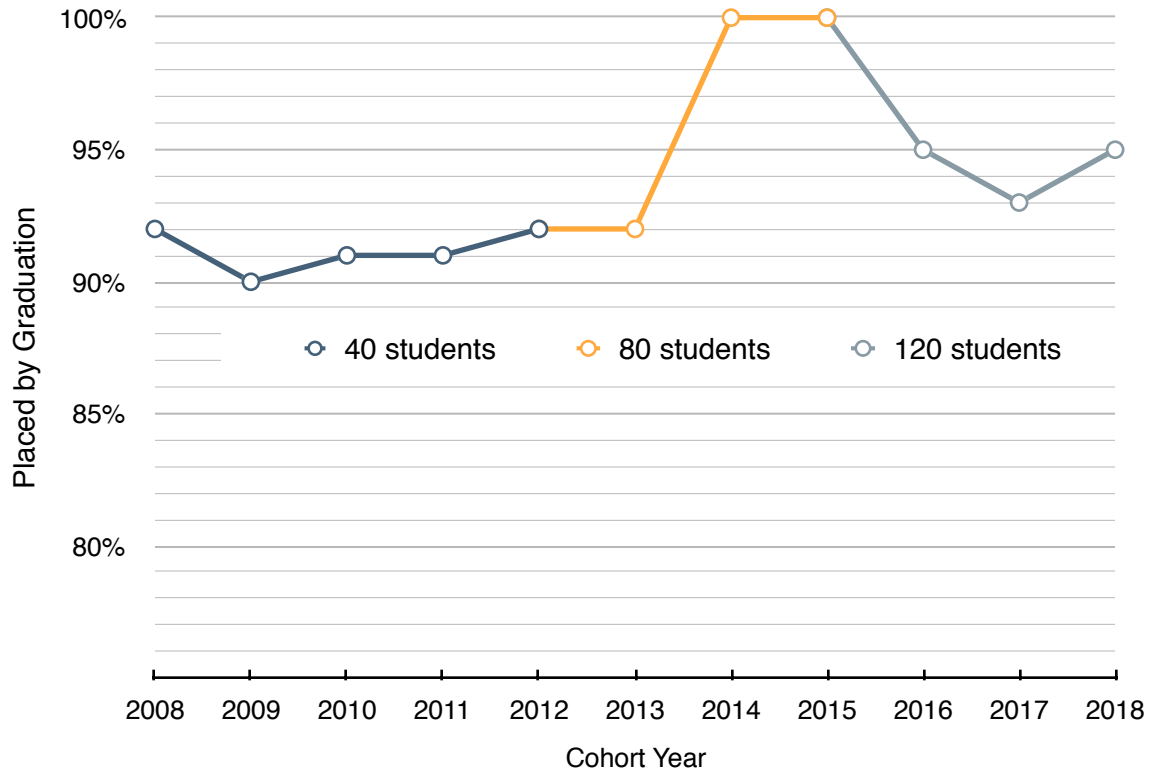
Cohort Year

Inflation-Adjusted Average Starting Salary by Cohort Year

Cost of Living (COLI)-Adjusted Average Starting Salary by Cohort Year

Graduates by Cohort Year

About the Data

Data in this report are compiled primarily from two sources: (1) Institute records on admissions and employment published annually; and (2) Information on current employment, including transitions and promotions, gathered from alumni profiles on Linkedin. Among the 762 alumni, 755 maintain a Linkedin profile.

Institute generated 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 changes happen, such as employment transitions, and slightly less so when receiving career ladder promotions.

Source URL: http://analytics.ncsu.edu/reports/alumni/MSA2018.pdf

NC STATE UNIVERSITY