The Evolution of Data Science Education
(and what Georgia Tech is doing about it)

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The PAST
Data Science? Analytics? What’s that?

“One person with an idea”

- USAGE: Ad-hoc work
  - Even more ad-hoc use/implementation

- BACKGROUNDS: Variety
  - Statistics
  - Computer Science
  - Operations Research
  - Mathematics
  - Business (Quantitative)
The PRESENT
Data scientist? We want one of those!

“One person to have ideas”

- USAGE: Directed or “have at it”
  - Still limited use/implementation

- BACKGROUND: Jack-of-all-trades
  - Solid background in something
  - Self-taught in some areas
  - Just enough to be dangerous in others
The FUTURE
Complementary deep/broad teams

“One organization with ideas”

- USAGE: Large, planned projects
  - More integration, better planning ➔ More usage

- BACKGROUND:
  - Individuals
    - Broad analytics vision
    - Deep training in some areas
  - Teams
    - Complementary skill sets
Top-10 rankings\(^1\) in computing, business, and statistics

\(^1\) Computing: *US News & World Report (USNWR)* computer science ranking  
Business: *USNWR* business ranking or business-quantitative analysis ranking  
Statistics/OR: *USNWR* statistics ranking or *QS World University* ranking in statistics/OR
One-Year Interdisciplinary Master of Science in Analytics at Georgia Tech

The one-year Master of Science in Analytics is an interdisciplinary degree program that leverages the strengths of Georgia Tech in statistics, operations research, computing, and business by combining the world-class expertise of the Scheller College of Business, the College of Computing, and the College of Engineering.

By blending the strengths of these nationally ranked programs, graduates will learn to integrate skills in a unique and interdisciplinary way that yields deep insights into analytics problems.

Learn more at analytics.gatech.edu
**Georgia Tech’s vision**

Master of Science in Analytics

- **Interdisciplinary core + Depth tracks**
  - ✓ 50% of courses outside of track area
  - ✓ Advanced elective courses with area majors
  - ✓ Tracks in
    - Analytical Tools (statistics, OR, machine learning)
    - Business Analytics
    - Computational Data Analytics
Georgia Tech’s vision
Master of Science in Analytics

- Additional resources
  - High-performance massive-scale data analytics lab
  - Teamwork/leadership training
  - Creativity training
  - Oral & written communication training
  - Professional/career placement assistance
- 12-month degree (fall, spring, summer)
  - Fall 2014 cohort: apply by June 15
  - Part-time available, daytime only

- Interdisciplinary core + Tracks
  - Analytical tools (statistics, OR, machine learning)
  - Business analytics
  - Computational data analytics

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