Master of Science in Data Analytics

Program Update

Ivan Garibay
Industrial Engineering and Management Systems Department
Vision

- Thriving **Innovation Ecosystem** in the area of **Big Data Analytics**
  - Academic programs
  - Research Centers, Labs
  - Venture Capital Funds
  - Startups
  - Large Corporations
  - Legal Infrastructure
  - Policy support
Program Goals

1. Achieve **international prominence** in teaching Big Data Analytics

2. Make our **partnerships** with industry the **cornerstone** of the program
MSDA Projected Growth: Quantity + Quality

Projected MSDA Student Enrollment per Year

- 2016 (Fall only): 1.5 apply / 1 admitted
- 2017 (Fall only): 3 apply / 1 admitted
- 2018 (Spring+Fall): 3 apply / 1 admitted
- 2019 (Spring+Fall): 6 apply / 1 admitted
- 2020 (Spring+Fall): 6 apply / 1 admitted
Cohort Characteristics Continued

Average time working post-bac: 7 years

STEM fields

Companies represented:

[Logos of various companies]
Fall 2017 Metrics

• Fall 17 applications: 78 (deadline July 2017)
• Fall 17 accepted: 44
• Fall 17 capacity: 34

• Spring 2018 cohort rollout: growing fast!
Capstone: big data analytics intrapreneurship

- Based on I-Corps (Lean Startup)
  - Product Market fit of new revenue streams and products
  - Need mentors, teaching team member experts
- Build an big data analytics minimum viable product
  - Big Data Maker Space on campus
- Story telling
  - Present results to upper management
Big Data Maker Space

• Visible place at UCF campus
• Focus on big data education
• Focal point of knowledge and technologies for big data
• Access to big data technologies: Cloudera, AWS, Azure, Hadoop clusters, Spark, R, python libraries, SAS, SPSS, etc.
• Access to big data technical experts in residence
• Assist: MSDA Capstone, MSDA courses, all students and innovators on campus
MSDA Advisory Board
Seeking Chief Data Officers / Chief Data Scientist
New MSDA Associate Director: Mr. Dan Eilen
**Investing in the MSDA: Philanthropic Opportunities**

**Projected MSDA Student Enrollment per Year**

- **A) Funds for:** 2 Scholarships
  - 2016 (Fall only): 1.5 apply / 1 admitted
  - 2017 (Fall only): 3 apply / 1 admitted
- **B) Funds for:** Big Data Maker Space
  - 2018 (Spring+Fall): 3 apply / 1 admitted
  - 2019 (Spring+Fall): 6 apply / 1 admitted
- **C) Funds for:** 2 Faculty on Data Analytics
  - 2020 (Spring+Fall):
Thank you!

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Cohort Characteristics

Active students: 19
Average Quant GRE: 157
Average Verbal GRE: 158
21% have graduate degrees
Average GPA: 3.4
73% Domestic
84% have STEM undergrad
37% come from Florida Schools
The Pitch

• Students
  • Fall Application Deadline: July 15th
  • Possibly Opening a Spring Cohort (34 more students per year)
  • We are happy to organize information sessions

• Scholarships
  • Seeking to fund two scholarships

• External Advisory Board Members