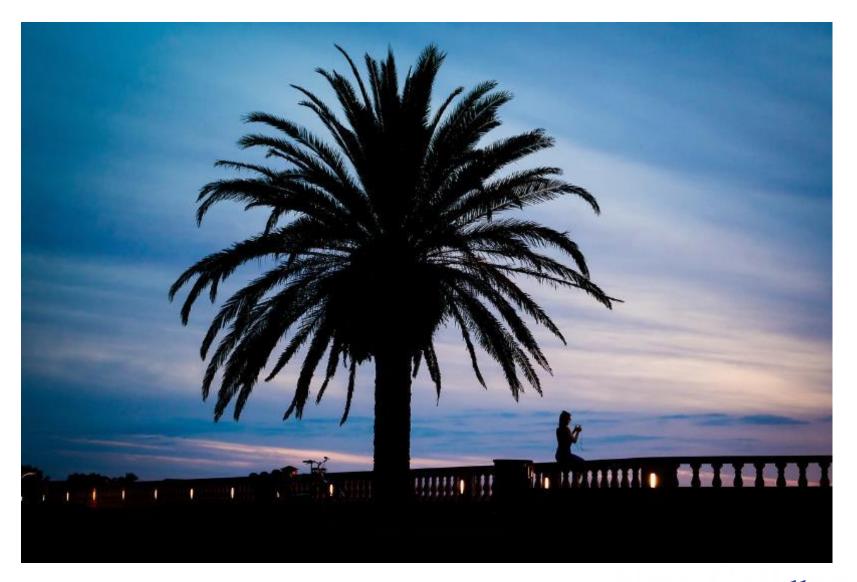
# Liberal Arts Data Science Workshop

Jan 12-13, 2018











#### **Social Media**

#LADSNCF
Liberal Arts Data Science
New College of Florida

NewCollegeofFL



### **Social Media**

Liberal Arts Data Science List on Twitter

- MineDogucu
- mdogucu



# Liberal Arts Data Science Workshop #LADSNCF



# Statistics in the Data Science Curriculum #LADSNCF

Panelists: KB Boomer, Richard De Veaux, Nicholas Horton, Adam Loy Moderator: Mine Dogucu

Jan 12, 2018



#### **Outline**

- Five minute presentations by the panelists on their college's statistics curriculum
- Questions posed by the moderator
- Questions posed by the audience



# Statistics in the Data Science Curriculum #LADSNCF

Panelists: KB Boomer, Richard De Veaux, Nicholas Horton, Adam Loy Moderator: Mine Dogucu

Jan 12, 2018



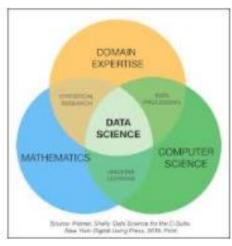
# Change in the Curriculum

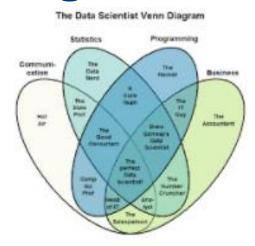
- What changes have you adopted in your statistics curriculum with the emergence of data science?
- In liberal arts colleges, do you think we will have separate statistics and data science majors or just data science majors?

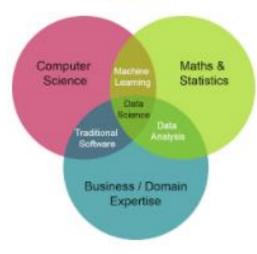


# **Data Science Venn Diagrams**

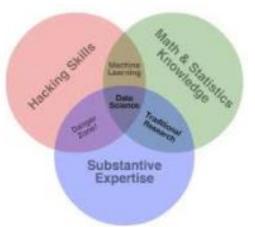






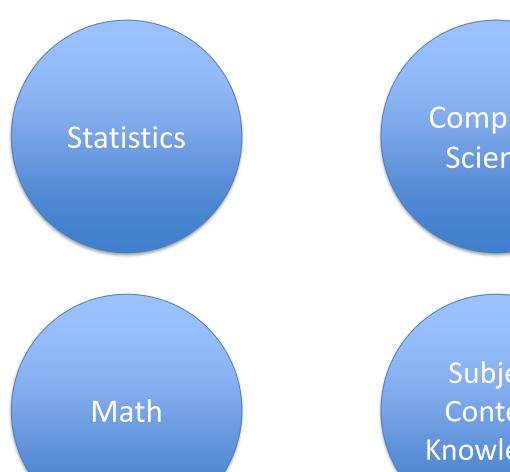








### **Data Science Venn Diagrams**



Computer Science

> Subject Content Knowledge



#### **Statistics**

- How much statistics should a data scientist know?
- How many statistics courses should a data science major at a liberal arts college take? What skills and topics should these courses cover?



# **Computer Science**

- Which software do you use in your classes? Which additional ones would you like to adopt?
- What new computational skills do you teach that you did not teach five years ago? What others would you like to teach?
- When (in the curriculum) and how do you teach these skills?



#### Math

- How many math courses are your students (majors) required to take in your program currently?
- With the changes in the field, how many math courses should be required to understand statistics in data science?
- Do you have any math courses targeted towards statistics students?



### Subject Content Knowledge

- How many courses should be dedicated to learning subject content knowledge?
- What subjects could potentially be counted towards the degree?



### **Data Science at Liberal Arts**

- Why Data Science at Liberal Arts?

