Data Science Developments at Morehouse

Chuang Peng\textsuperscript{1}

\textsuperscript{1}Morehouse College

June 10, 2019
I’m an algebraist by training

2009-11, studied Bioinformatics at Stanford, sponsored by an NIH grant

joined by Joe McCray, E. Archibold, C. Ng, developed three new Bioinformatics courses at Morehouse

Courses are: Principles of Bioinformatics, Programming in Bioinformatics, Microarray Analysis

Based on the new courses, created Bioinformatics minor at Morehouse in 2012, graduated 30+ students with Bioinformatics CP (MC)
data science not only fundamental to Bioinformatics, but same also true virtually everywhere, science and humanities

NSF grant DSX, K. Gosha from Morehouse and B. Marshall from Spelman

Two summer data science faculty workshops, 3 from Morehouse year 1, and 7 from Morehouse year 2

faculty are from all three divisions from Morehouse, Science, Business and Humanity
Future Developments

- All faculty participants of the two workshops have developed data science modules to imbed into their selected courses
- to establish a data science laboratory, a Python hub at Morehouse
- Another NSF grant, joined with Georgia Tech, Agnes Scott, and Spelman
- to promote data science pedagogy cross the board
- summer bootcamp, 2019
- develop new data science courses: Intro to data science, dataset managements
- develop data science minor at Morehouse