

Bachelor of Science Degree in Mathematics with an Option in Data Science



The Department of Mathematics, at the University of Houston offers a B.S. in Mathematics with an Option in Data Science.

Forbes lists “data scientist” as one of its top 10 jobs (with the largest hiring growth) for 2019. It offers great job opportunities for students who understand how to analyze large data sets and have acquired advanced computational skills to discover hidden relationships between high dimensional data. The innovative algorithms and softwares developed for big data analytics in the last decade impact many areas, from economics, marketing, finance, and engineering, to health-care, biology, biomedicine, environment, and social sciences.

This program introduces students to data applications, corresponding methods, techniques, software, and other fundamentals.

Aims of the Program:

- Create a strong foundation in Mathematics with a focus on applicable methods for handling real data
- Introduce data mining techniques such as artificial neural networks and support vector machines, with applications to automatic classification, prediction, and clustering
- Teach applied statistics providing efficient approaches to data description, statistical inference, multi-linear regression, with applications to concrete data
- Offer several courses dedicated to computer implementations of various techniques, using software packages based on languages such as R and/or Python

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