

# DATA ANALYTICS AND STATISTICS



**Median starting salary  
for data analysts:  
\$59,000**

**Median pay for  
mid-level data  
scientists: \$130,000**

## Who hires data analysts?

Data analytics and statistics skills are valuable in all types of industries, including:

- Healthcare
- Banking
- Government
- Retail
- Science
- Manufacturing

## In-demand skills for the 21st century workplace

The World Economic Forum released a study in 2018 indicating that by 2022, data analysts and scientists will be the highest job in demand. So what is data analytics? Data analytics informs fact-based decision making by combining advancements in technology, mathematical and statistical reasoning, and machine learning methodologies to identify patterns and make predictions using large existing data sets.



## Why should I major in data analytics and statistics at HPU?

- In our program, students begin by building a solid foundation in mathematics and basic statistics. As they progress through the statistics courses, they learn to apply statistical models to detect patterns in large data sets and draw inferences accordingly.
- Student take courses in both R and SAS programming, both of which are industry standards in statistics and data analysis.
- Our program culminates with a data analytics capstone sequence, in which students apply what they have learned to a data analysis project over two semesters.
- Students receive one-on-one mentorship from expert faculty.

# DATA ANALYTICS AND STATISTICS



*Matthew Slifko*  
HPU Assistant Professor of Statistics

## What do data analysts do?

Data is everywhere, in every industry. Data analysts help organizations understand and use their data to solve problems and identify opportunities for future growth. As graduates gain experience in the workplace, they can become experienced data scientists, experts who pair their mathematical and statistical expertise with a deep understanding of their particular industry.



## What makes a good data analyst?

The ability to collaborate in order to help others find answers to their questions lies at the heart of data analytics. An effective data analyst not only has the ability to discover structure within the data but also excels at communicating ideas and results to audiences with varying levels of technical knowledge. At HPU, our analytics students take courses in statistics, mathematics, and computer programming. The data analysis skills honed in our program will be applicable to any industry.

## Meet Michael

**Major:** B.S. in Business Administration

**Minor:** Computer Science

**Career:** Michael is an associate business intelligence and data analyst at Regeneron Pharmaceuticals. The role was created as a continuation of Michael's internship, and he is responsible for the new manufacturing and business intelligence program for the manufacturing department. This includes the enabling of data gathering and analysis, presentation and visualization of manufacturing data and metrics, and the development of robust predictive analytics capabilities. His role will also allow him to participate in other related project management initiatives when needed.

