Data Science for Drug Discovery, Health & Translational Medicine

Joanne S. Luciano https://www.linkedin.com/in/joanneluciano

Visiting Associate Professor
Indiana University School of Informatics and Computing

How can data science help us all lead healthier lives?

Topics:

Guest Lecture: Dr. Grant Cumming and Dr. Tara French
Personal Genomics

Learning Objectives:

1. The student will understand the challenges facing 21st century medicine and the opportunities for the data scientist in addressing these challenges.

2. The student will be able to define and discuss the following terms "Realistic Medicine," "Preferred Health Outcomes," and "Ecological approach to health & healthcare."

3. The student will be able to analyze the challenges of formulating healthcare in the 21st century and strategize scenarios for addressing this call to arms.

4. The student will be able to describe personal genomics, where data science can have impact, and use tools learned in this course to work with the data.