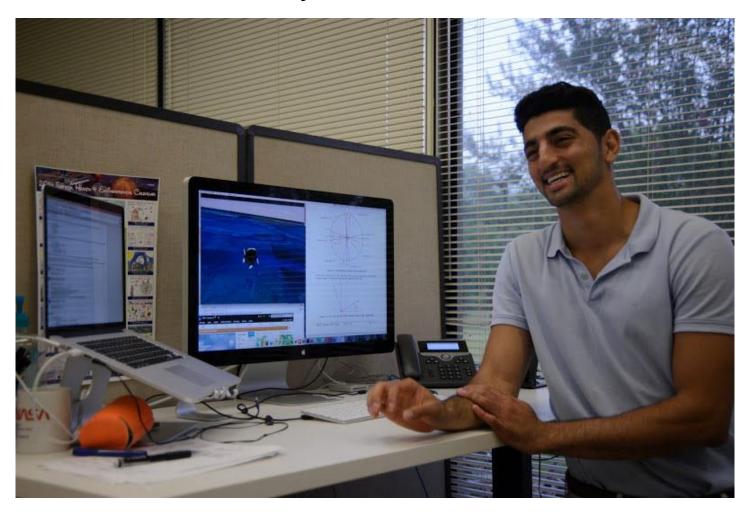# My NASA Data - STEM Career Connections

MATHEMATICS: Model Analyst

Education

Mathematicians and statisticians typically need at least a bachelor's degree in mathematics or statistics. A master degree in quantitative field (physics, mathematics, computer science, etc.)is also highly recommended as well as Ph.D.

Related Fields

- Data Modeler Link

- Data Scientist [Link](#)

Work Description

A model analyst develops models to help visualize, observe, and predict complicated data. Model analysis is the process of taking large amounts of data and separate it into a structure that makes it intelligible to the binary process of computers. An analyst also manages the flow of information between different user groups through the use of relational databases.

Why is this job Important?

Model analysis is the process of taking large amounts of data and separate it into a structure that makes it intelligible to the binary process of computers. Modeling is used to predict future events so that users have the information they need to make decisions. For example, models can predict hurricanes so that coastal communities can better prepare. Social media companies may use mathematical models to predict sales of advertising based on the number of "likes" a product receives!

NASA Connections

Job Title NASA Examples:

- Data Modeling Analyst
- Data Scientist
- Data Security Analyst
- Systems Development
- Data Mining and Knowledge Discovery

NASA Career Links:

- [NASA Careers](#)
- [NASA Internships & Fellowships Pathways](#)
- [NASA Student Volunteer Program](#)