Why study Mathematics?

• There is a growing demand for mathematicians.
• Companies actively seek individuals with problem solving skills who are able to keep up with the rapid advances in technology.
• Mathematicians work in a wide variety of fields, such as:
  – Climate Study, Medicine, Cryptography, Robotics, and Animated Films (more information in the AMS article “What Mathematicians Do”)
• Two of the top emerging job occupations are Machine Learning Engineer and Data Scientist, needed in many areas such as:
  – Medical research, health care, finance, advertising, and technology (https://www.thebalancecareers.com/top-machine-learning-jobs-4164641)
• These jobs require expertise in computer science, statistics, and math.
Mathematics at St. John’s University

• Majoring or minoring in Mathematics gives students an advantage on the job market.

• Three new undergraduate courses:
  – *Introduction to Computer and Data Science*
  – *Design and Analysis of Algorithms*
  – *Introduction to Machine Learning*

• Master of Arts Program in *Applied and Computational Mathematics* ([https://www.stjohns.edu/academics/programs/applied-and-computational-mathematics-master-arts](https://www.stjohns.edu/academics/programs/applied-and-computational-mathematics-master-arts))
  – *New Track in Artificial Intelligence and Machine Learning*
SJU Math Majors

• Have gone on to have successful careers in a variety of fields, working for employers such as:
  – Amazon, Barclays, Goldman Sachs, and the F.B.I.

• Many have gone on to graduate school at top universities, such as:
  – Columbia, NYU, Stanford, and UPenn