

# Applied Mathematics and Data Science

**ADELPHI**  
UNIVERSITY  
NEW YORK



“Adelphi’s small class sizes have allowed me to create strong bonds with professors, leading to an incredible research opportunity. The graduate courses are tailored toward students who are eager to learn, with professors that will guide you throughout the process.”

**Eleni Zamagias, BS '21,**  
adjunct faculty and current student,  
MS in applied mathematics and  
Data Science



## Why Earn Your MS in Applied Mathematics and Data Science From Adelphi?

Our flexible MS program gives full- and part-time students the analytical skills they need to advance their careers in tech, finance and other fields. You will:

- **Specialize in a field** with a fast-growing need for professionals with advanced training.
- **Learn in small classes and conduct interdisciplinary research** with an expert faculty committed to your success.
- **Have opportunities to receive credit for internships** and qualify for generous scholarships.

## Our distinguished applied mathematics and data science faculty includes:

**A recognized expert in mathematical carcinogenesis**, whose mathematical models could save lives by revealing how cancer develops in the body

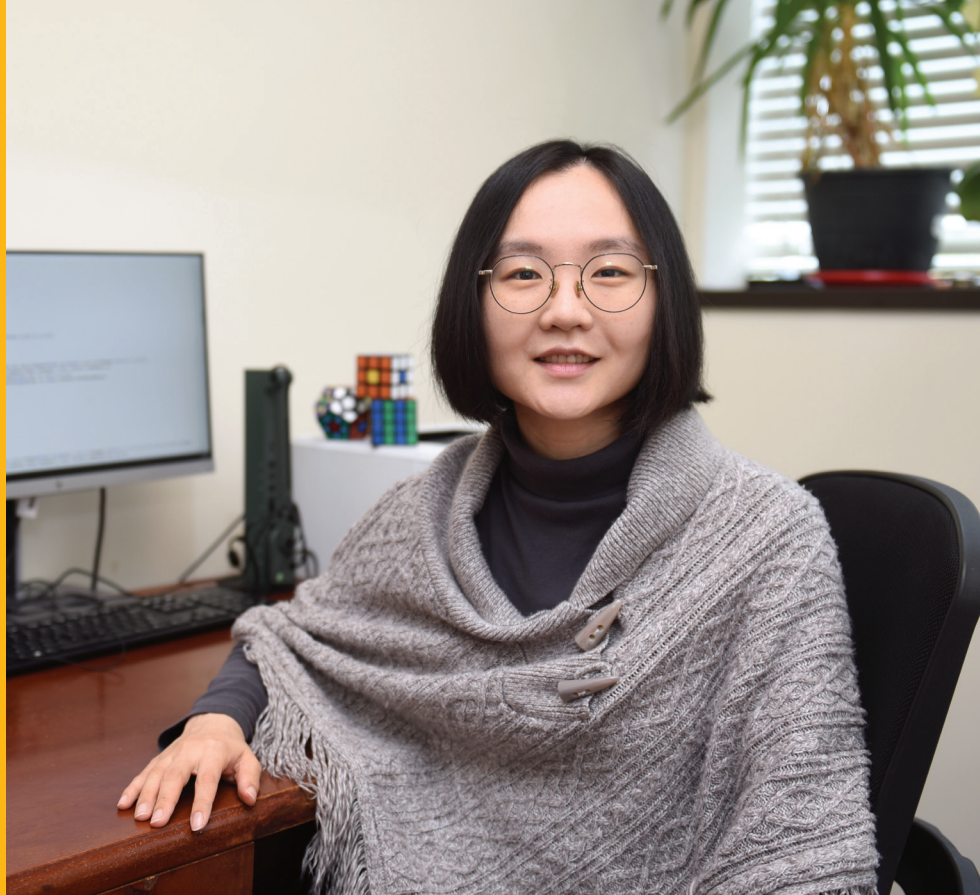
**A professor who has received more than \$2 million in federal funding** to prepare future secondary school math and science teachers

**An expert in game programming** who published a collection-style game platform for Android tablets in the Google Play Store

**An applied mathematics scholar** who uses optimization, simulation and stochastic processes to solve problems in music theory



**Josh Hiller, PhD**, assistant professor, mathematics and computer science



## A world-class program with expert faculty

As a student in Adelphi's 30-credit MS in applied mathematics and data science program, you'll receive personalized attention in small classes and lab settings from a faculty of experts in the field.

**“Students in our program get truly individualized mentorship. With most classes continuing to see 10 students, our students have the chance to master the skills they need to move on to top-notch careers in government or industry.”**

## A program to enrich your understanding and sharpen your skills

**Adelphi's MS program prepares you for leadership roles** in the rapidly growing fields of applied mathematics and data science. As a student, you'll be able to apply your knowledge to real-world problems to hone the skills you need to boost your career.



**“This MS program created the perfect avenue for me to bring my problem-solving skills to perform analyses and discover insights from data. The best part was the breadth of faculty advisers—they not only imparted their knowledge and expertise, but also taught me persistence and dedication to my studies.”**

**Michelle Zhang, BS '20, MS '21**, currently a first-year PhD student at Rensselaer Polytechnic Institute

## Here are some of the courses you may take as an MS in applied mathematics and data science candidate:

- **Applied statistics and data science** courses cover everything from big data analytics to current topics and statistics.
- Students can choose **industrial mathematics** offerings such as linear programming and optimization.
- Regression analysis and differential equations are among our **mathematical modeling** course selections.

## Research and internships are part of an applied mathematics and data science education

### You will be able to:

- Conduct cutting-edge research alongside your professors—and present your results at Adelphi's annual Research and Creative Works Conference
- Gain hands-on experience via internship opportunities, for example, at Brookhaven National Laboratory

# A world of career options

The Society for Industrial and Applied Mathematics and the American Statistical Association report that jobs in modeling and data manipulation are at record highs and likely to grow over the next decade.

Your MS in applied mathematics and data science from Adelphi gives you the training and skills you need for a dynamic, high-demand job in scientific computing, optimization or statistics.

---

## Application Requirements

Applicants must hold an undergraduate degree in mathematics, applied mathematics, statistics or other closely related degree and should submit the following application requirements:

- Graduate application and \$50 fee
- Official transcripts from all prior institutions and proof of bachelor's degree from an accredited four-year institution (in mathematics, applied mathematics, statistics or a closely related and/or equivalent degree)
- One letter of recommendation (academic or professional)
- Résumé or an additional letter of recommendation
- Personal essay
- TOEFL, IELTS or Duolingo English test scores required for international candidates
- Course-by-course evaluation prepared by a NACES member organization required for international candidates\*

\*Beginning with the Spring 2023 semester

## Additional Requirements

Applicants may also supply a portfolio containing descriptions of completed project work. This is recommended, though not required.

**Adelphi University, New York, is dedicated to transforming students' lives** through small classes with world-class faculty, hands-on learning and innovative ways to support academic and career success. We offer 75 undergraduate programs, more than 70 master's degree and doctoral programs, and 55 certificate programs, with particular strength in our Core Four—Arts and Humanities, STEM and Social Sciences, Business and Education Professions, and Health and Wellness. With an increasingly diverse student body and faculty, and a personalized approach to learning, we serve more than 7,500 undergraduate and graduate students from 44 states and 65 countries at our beautiful Garden City New York main campus—located just 23 miles from New York City's cultural and internship opportunities.

**Office of University Admissions**  
One South Avenue  
Garden City, NY 11530  
Tel: **516-877-3050**  
Email: [admissions@adelphi.edu](mailto:admissions@adelphi.edu)  
Visit: [admissions.adelphi.edu](http://admissions.adelphi.edu)

# What can you do with an MS in applied mathematics and data science?

Your degree opens the doors to rewarding careers in diverse fields such as statistics, engineering, scientific computing, mathematical finance, operations research and management science.

**#1 National winner of 2020 American Association of University Administrators' John L. Blackburn Exemplary Models Award for career guidance**

# 94%

**of our 2020 master's graduates say that Adelphi University increased their understanding of the roles and responsibilities of professionals in their field**

—Adelphi University Career Outcomes Survey: Class of 2020

**ADELPHI**  
**UNIVERSITY**  
NEW YORK